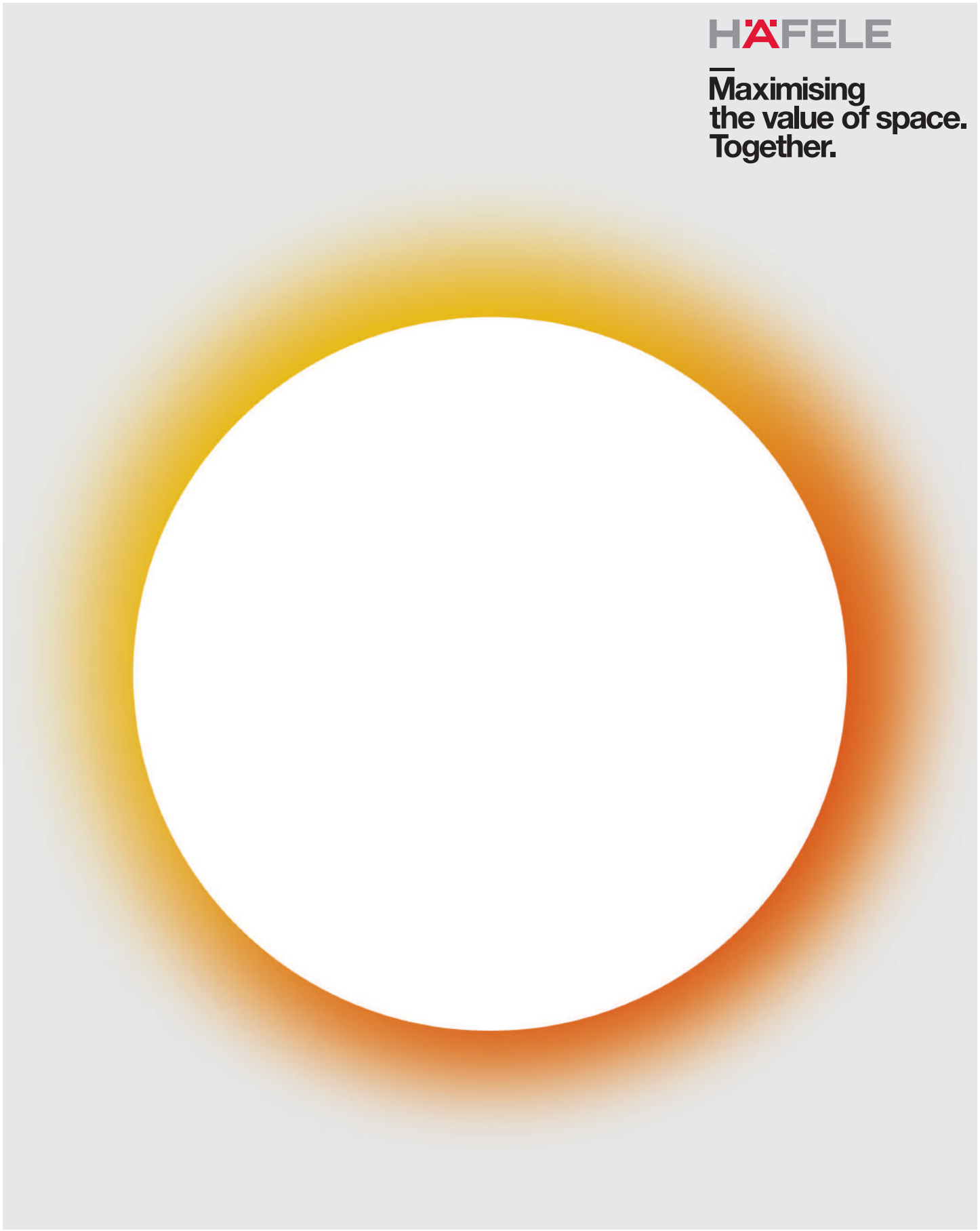
HÄFELE

Maximising
the value of space.
Together.



LOOX

The LED lighting system
for furniture and rooms.

10 years
GUARANTEE

The first 100 years.

Dear Reader,

2023 marks a huge **milestone in the history** of our company. Häfele is now **one hundred years old**, and we are taking the opportunity of this extraordinary anniversary to pause and reflect intensively on the growth that's taken us from a small hardware store in the Black Forest (Germany) to a global company.

In addition to extraordinary people who have guided the company's fortunes with far-sightedness, what stood out prominently for us was our ability to forge **strong partnerships** that have been fundamental in shaping our progress and achieving the milestones we stand before today. We sought to build an ecosystem that fostered a sense of community, respect, and shared purpose and over the years, this approach has proven to be the cornerstone of our achievements. Together, we have weathered economic downturns, navigated shifting market trends, and embraced technological advancements.

Therefore, it wouldn't be incorrect to state that it has been **courage and optimism**, above all that have carried us as an organization through stormy times. These qualities have also defined Häfele from the very beginning and characterised the founders back in the day. The original 2-man business which was a specialist hardware store led by **Adolf Häfele and Hermann Funk**, has developed into a global company, Häfele SE & Co KG, with subsidiaries in **38 countries, 8,000 employees** and more than **1,50,000 customers**.

Standing on the threshold of the next phase of our journey, we realise that it was courage and optimism along with an **unwavering alliance with our employees, vendors, suppliers and above all our customers**, that enabled us to change continuously, to break new ground and not only to think ahead, but also to actively implement these forward-thinking ideas.

As we foray into the next 100 years, Hafele presents its future-oriented brand purpose (which will be at the very core of our strategic outlook) - **"Maximising the value of space. Together."** The new brand claim aims to consolidate our attitude, our competences, the developments inside and outside of our company and the strategic decisions we have made in the past years and decades. And as we transition between the first and second century, we aim to pour our collective experiences that have brought us here into a connected mould – our purpose, that will function as a starting point for a shared journey into the future and will act as a powerful compass for us.

Needless to say, we excitedly look forward to shaping this - perhaps new, different, surprising - future together with you!

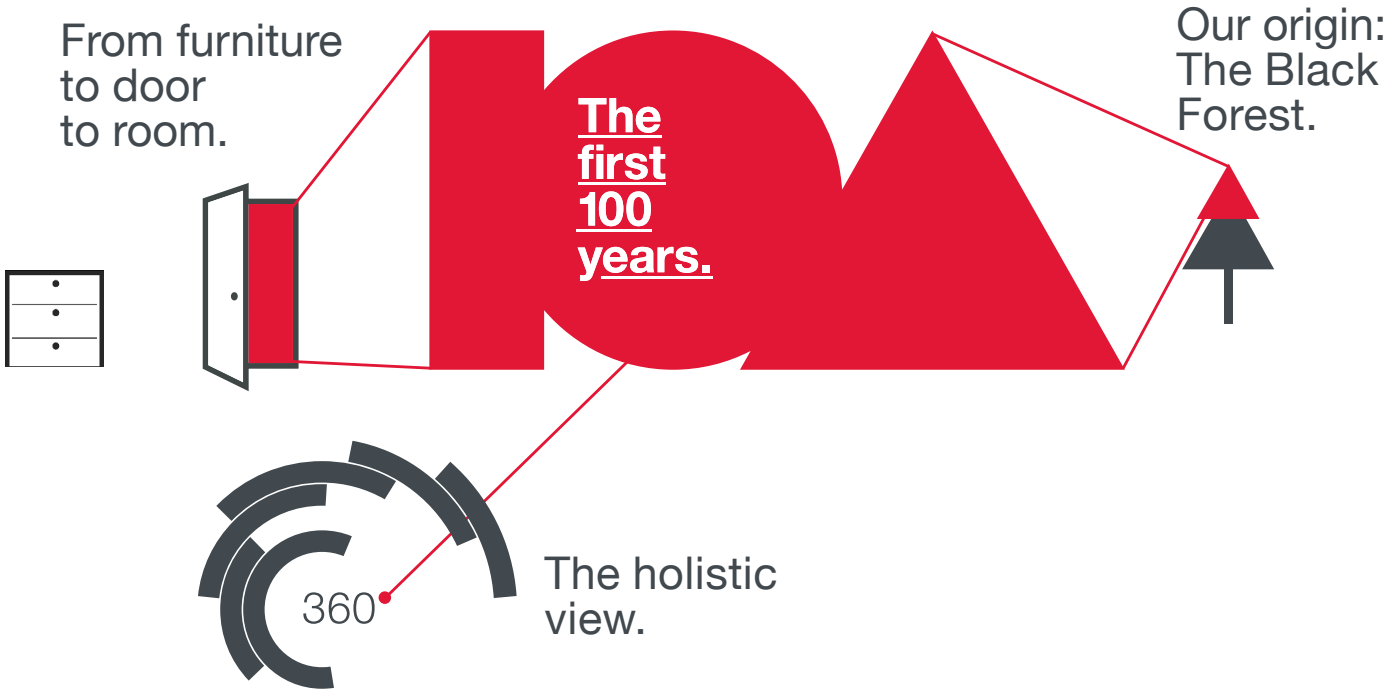
With Best Regards,

Frank Schloeder
Managing Director, Hafele South Asia

HÄFELE

THE PATH OF HÄFELE **THAT TRANSLATED INTO SYMBOLS**

For the 100-year anniversary of Häfele, we have expressed two things: The pride in the successful path that the company has taken up to today, and optimism that the path to the future will be just as successful because we have the courage to continuously reinvent ourselves. This is why the anniversary design is based on the roots of the company and is at the same time open and flexible. A modern forward-looking code that gives our ambitions a visual expression.



The first 100 years.

HÄFELE

MAXIMIZING THE VALUE OF SPACE. **TOGETHER.**

In conjunction with its 100-year anniversary celebrations this year, that kicked off at Interzum 2023, Hafele unveiled a new purpose line **"Maximizing the value of Space. Together.",** which resonates strongly with us. We aim to strengthen our brand position in South Asia by emphasizing on the meaning of this purpose line, i.e. Hafele strives to provide the best of the best **(maximizing)** benefits **(value)** through its versatile solutions and services for different living and working spaces ranging from hotels, offices, institutes and homes as well as different interior applications like kitchens, living rooms & bedroom furniture, doors and interior partitions, wardrobes as well as furniture and room lighting. And this we strive to achieve in partnership **(together)** with all entities within our ecosystem from our suppliers, partners (Industry and Project), channels (distributors, dealers and franchisees), influencers (architects, designers, contractors and carpenters) right up to the final beneficiary i.e., our end customer.

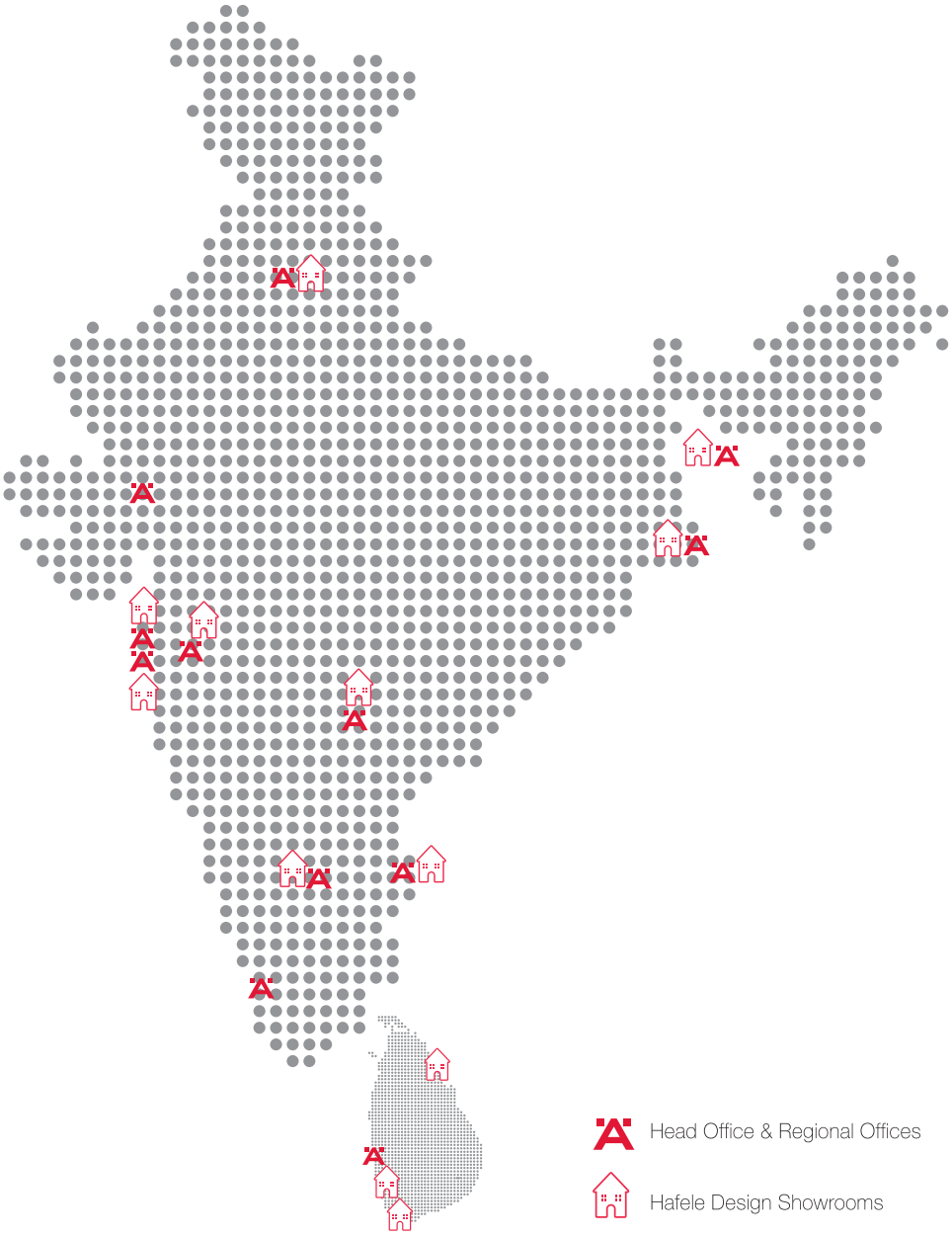
In short, with our new purpose line we aim to co-create an environment for our endearing customers where they can enjoy the multiplied benefits of their living and working spaces.

Hafele Worldwide

With its origin in 1923 in a small town named ‘Nagold’ from the Swabian region of Germany that nurses a passion for hardware technology, it is no surprise that Häfele has lived up to its roots through a successful presence in the architectural and furniture hardware industry for over 10 decades now. Today, Hafele’s worldwide penetration includes 38 subsidiaries across Europe, America, Asia, Australia and New Zealand. With these subsidiaries and numerous other sales organisations, Häfele operates in over 150 countries. The Häfele headquarters, 4 manufacturing units and 10 sales offices are located within Germany; while 1 manufacturing unit is located at Budapest, Hungary. The company also owns one of the largest and most sophisticated warehouses in its home country. The Häfele worldwide workforce is empowered by a base of over 8100 employees.

The group services over 150,000 customers across the globe through its extensive range of hardware products and a comprehensive logistics system. In addition to this, Häfele also provides consultative services to its customers, educating and advising them about buying the correct hardware as per their requirements. With this level of market penetration and ability to handle worldwide demand, it comes as no surprise that the company is an authority in the segment of home interior solutions; what is pleasantly surprising, though, is that in spite of its size, Häfele still remains a family owned and run business with a unique, friendly and value-centric work culture which is strongly followed among all its subsidiaries.

Hafele India



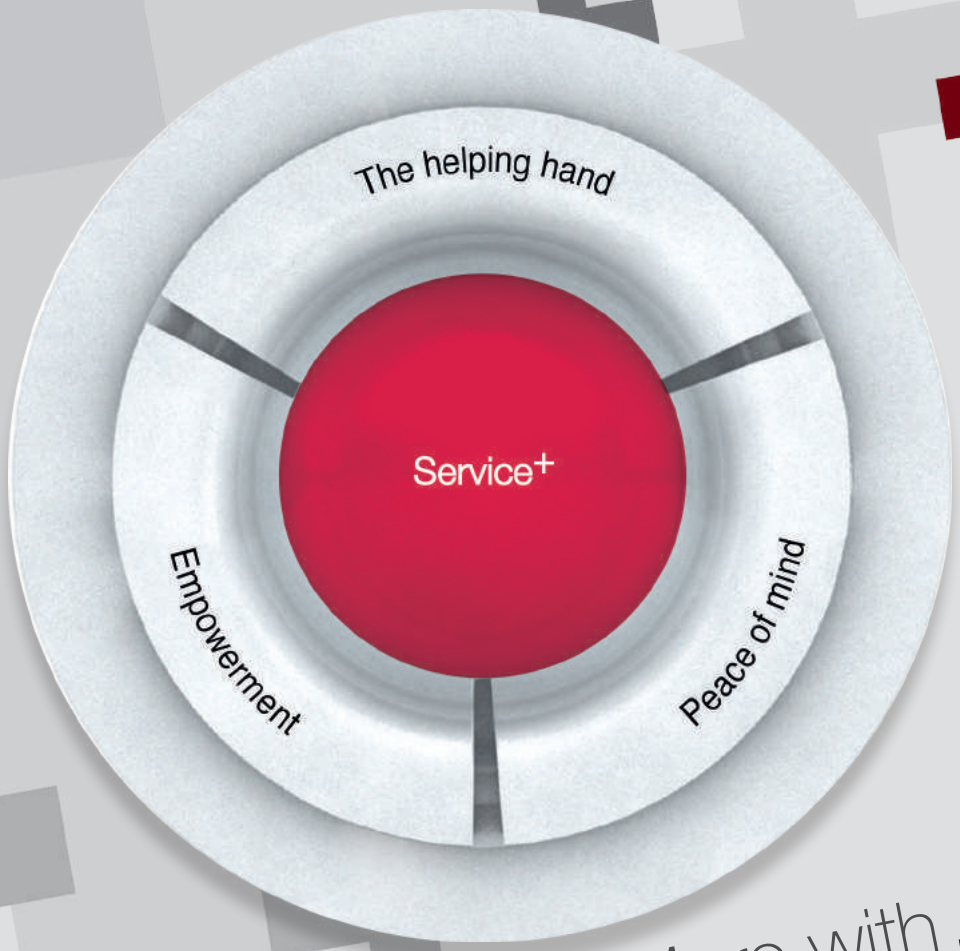
Häfele India is a wholly-owned subsidiary of the Häfele Global network and has been operating in India since 2003. The ability of the company to understand the diverse Indian market has made it an authority in the field of architectural hardware, furniture and kitchen fittings and accessories. The company also has a strong presence in synergized product categories namely Home Appliances, Interior Lighting, Water Solutions and Surfaces catering to the focused demand from these industries.

The subsidiary has a strong nation-wide presence with offices in Mumbai, Pune, Ahmedabad, Bangalore, Chennai, Hyderabad, Cochin, Delhi and Kolkata. It has full-scale operations in Sri Lanka and Bangladesh with Regional offices and Design Showrooms in both the countries; and has also spread its operations to other regions of South Asia including Nepal, Bhutan and Maldives.

Häfele's design showrooms are hubs of international home interior trends and cutting-edge designs presented in a world-class environment, where customers can see home solutions in their inherent applications. These showrooms function as a one-stop-shop for all home interior and improvement needs - from providing in-depth technical advice to kitchen and wardrobe designing services through a team of experts stationed at the showroom.

Häfele India services its customers with a base of 1500 employees, a well-networked Franchise base of over 180 Partners along with over 500+ direct dealers and 90+ distributors who in turn cater to over 12000+ sub dealers. The subsidiary has a sophisticated Logistics centre in Mumbai along with distribution centres in Delhi, Bangalore, Kolkata and Colombo respectively.

HÄFELE



Experience More with Service+

Our customers' working environment is becoming increasingly complex and their market is becoming ever more demanding. This drives our motivation to do everything in our power to help our customers be successful. And to demonstrate that Häfele is the right partner in these challenging times, we want to accompany our customers throughout their entire business process and give them added strength in every phase of their business. We don't just want to sell our products, we also want to provide the highest level of service.

We have now divided our services into two categories: ***Standard Services*** which we provide to our customers as a matter of course when they choose our products. For example, a high availability of our goods and punctual delivery. And then there is ***Service+*** which constitutes of services that give our customers considerable added value in terms of building expertise, increasing productivity or providing individual customised solutions. These services require a considerable amount of time and effort to develop and implement and are designed to enable our customers to regard them as worthwhile investments.

The aim is to create solid long-term foundations for our comprehensive service promise and to make Häfele an indispensable partner for our customers. The focus here lies not so much on us and on what we do – but rather, on the benefits derived by our customers. We want to ***empower*** them with opportunities to develop and expand their skills – both as masters of their trade and as entrepreneurs. We want to support them in the planning and realisation of their projects and relieve them of as much work as possible, thereby providing them with a ***helping hand*** to use their most valuable resource – time – as efficiently as possible. And we aim to give our customers ***peace of mind*** and the assurance that even after the end of a successful project completion, we will continue to be there for them as a reliable partner, shouldering responsibility.

The Pillars of Service+

In order to support you as comprehensively as possible, we have assigned the Plus Services to individual stages of your work process in a total of four themed pillars. We start with the transfer of knowledge and accompany you via planning and production to installation and maintenance.

Empowering customers with

Service+ Knowledge

Includes service offerings that provide inspiration and expertise to our customers about the Häfele product range. Through these, we enable our customers to use Häfele products profitably and at the same time remain at the cutting edge of technological development. One example of this is the Häfele Academy, which imparts knowledge about complex products and new technologies to our customers via seminars and trainings.

Providing a helping hand to customers with

Service+ Planning & Customised

Includes service offerings like space, design planning and customisations that make life easier for our customers and support their design vision. An example of this is Hafele's Lighting Design Service which helps our customers curate a lighting plan, following a customised approach, that enhances and brings out the true functionality of the interior space as per requirement.

Lending a "Peace-of-mind" experience through

Service+ Assist

Includes service offerings that provide support and assistance to our customers, whether digitally or on site. An example of this is the complete assembly and installation service for more complex and maintenance-intensive products done by our Meister certified and trained technicians.

HÄFELE
Service+
Assist

Meister Service

Bought products from Häfele and got questions about how to use them correctly? Do you require technical support? Our competent technicians would be pleased to help you out with the help of Meister Service.

Meister Service offers complete installation of key hardware products from Häfele, by 'Meister Certified' and trained service technicians from the company directly, at a nominal service charge. This service is available for select products from categories like Kitchen Solutions, Sliding Solutions, Door Hardware, Furniture Fittings and Lighting Solutions.

Key benefits of this initiative:

- Accurate installation of products as per standards and specifications
- Optimum functionality through accurate installations
- Less hassles of product replacements
- A peace-of-mind experience for customers using Häfele products

To learn more about Meister Service please contact our team by scanning this QR code or call us at +91 1800 266 6667

Service+
Planning

Furniture Lighting Design Services

You are planning a light project and have your initial ideas about the illumination and effects you want to achieve? Are you confused on how to go about with the detailed planning? Let us make your work easier with Hafele's Lighting Design Service.
The Lighting Design Service offers a bespoke design approach that ensures you have the right light fittings for the right task or application. Our team of design experts curate a lighting solution that enhances and brings out true functionality of your living spaces as per your requirement.

By request, you will first receive a proposal from our lighting experts as to how the solution can be optimised. Followed by a finished circuit diagram including a parts list, and even an installation plan in the form of individual assembly instructions. This will allow you to save time during planning as well as on site.

To learn more about Furniture Lighting Design Service please contact our team by scanning this QR code or call us at +91 1800 266 6667

Service+
Knowledge

Hafele Academy

New technologies throwing up new challenges? Is incorporating lighting in furniture difficult? Light in furniture is no longer an accessory, it has now becoming an essential function.

Häfele supports its customers with a comprehensive range of lighting workshops and trainings. The Häfele Academy creates an environment where we can work together with our customers to help them have a deeper understanding of our products, new innovations and strengthen the relationship we have with them.

10 years GUARANTEE

HÄFELE

Illuminate your space with LOOX:

Discover the perfect harmony of form and function!

Establishing new benchmarks with our 10-year guarantee.

LOOX
Furniture lighting solutions

Loox has been revolutionizing the way spaces are lit for convenience and ease of movement for more than 10 years.

From functional lighting solutions to mood-enhancing lights, Loox has been redefining functionality and convenience for over a decade.

Taking it a step further, we are introducing a **10-year guarantee** on our state-of-the-art and technologically advanced furniture lighting range.

Maximising
the value of space.
Together.

10 YEARS
GUARANTEE*

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LED silicone strip lights
Aluminium profiles
Polycarbonate plastic profiles

Point light
Recess/surface mounted downlights
Recess mounted downlights
Surface mounted downlights
Surface mounted lights

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New Sensor switches
Mechanical switches
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Multi driver box

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Linear light

Page

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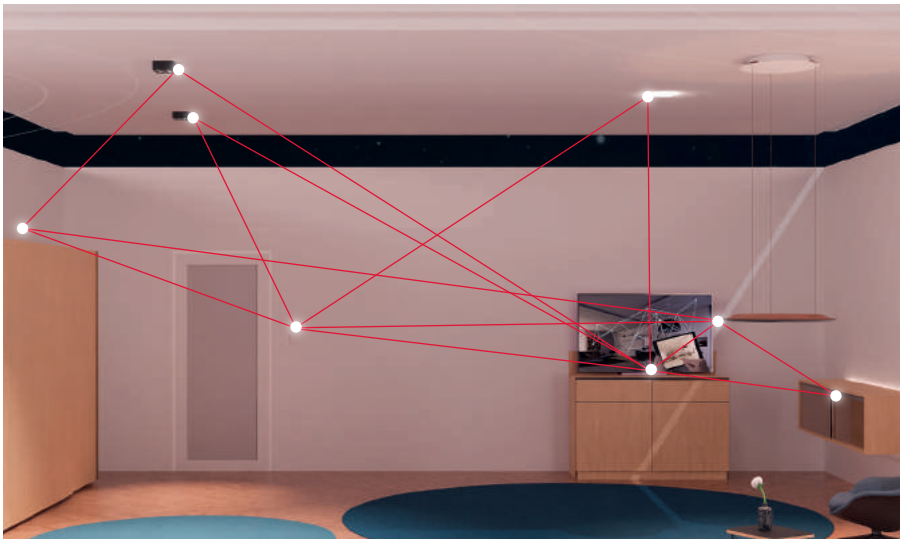
High-performance LED strip lights and design-oriented aluminium profiles – also available in trendy colours such as black and brushed stainless steel.



Häfele Connect Mesh

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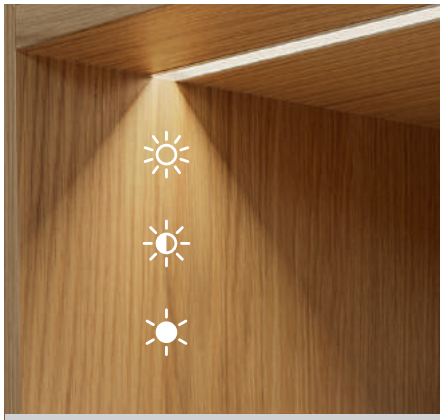
The wireless network of lights and electrically operated fittings – with intelligent components for smart lighting options

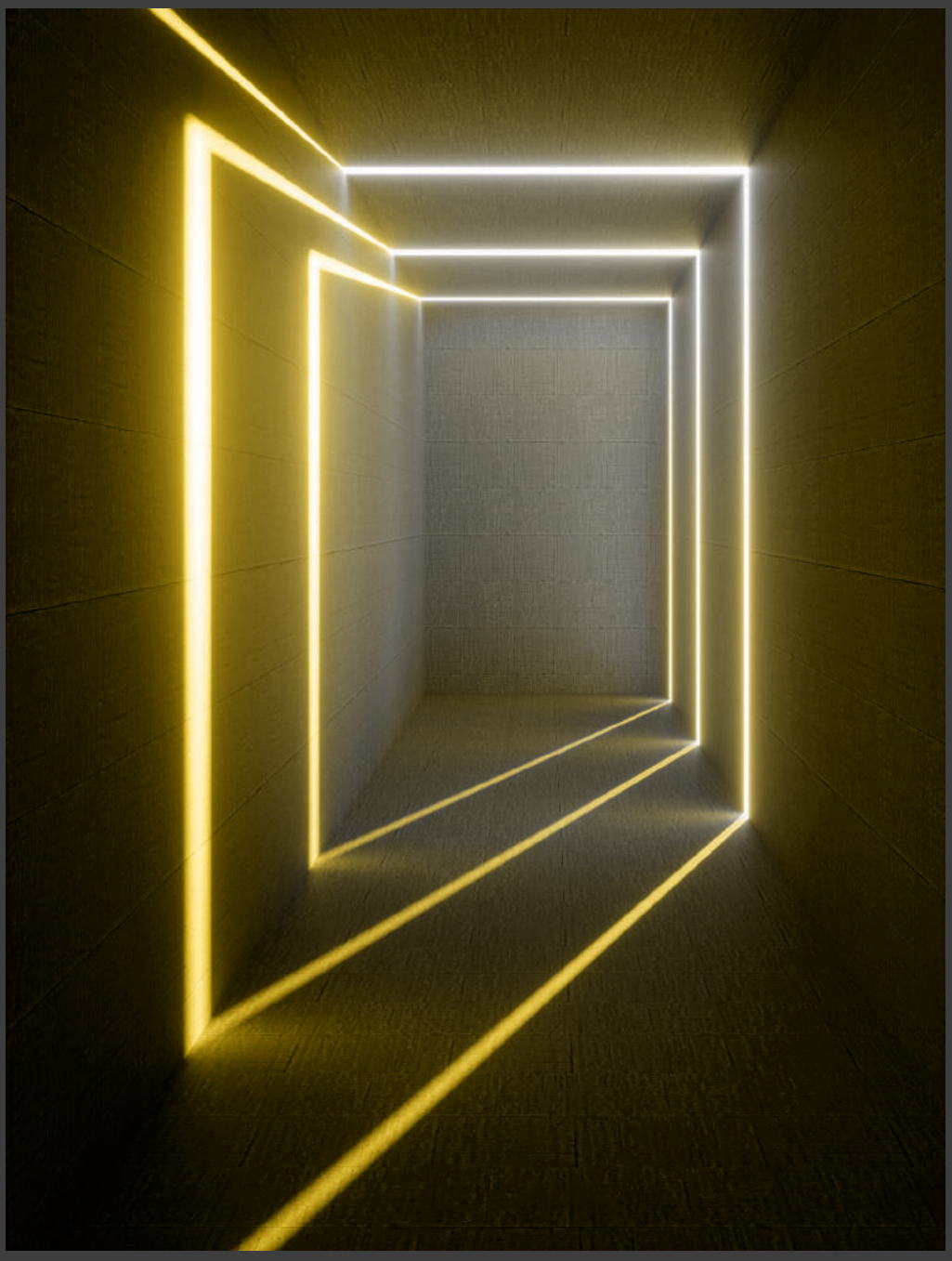
Spotlights > Page 80
Powerful lights for retail stores and other projects

Technical data > Page 138
By professionals for professionals – all facts about LED strip lights at a glance.



Select illuminance
Information on how to achieve the ideal illumination for your project:
Overview > Page 156
Selection aid > for every light

on.



LOOX5

We have spent about 100,000 hours working with LED lights, we have developed and researched, we have had many valuable discussions with partners in trade and industry – and we have learned a great deal. The market is demanding digital answers.

The result after four generations of Loox LED lights is therefore not simply further development, but a new level. Our development has accelerated. Because the world is accelerating, and the demands of our customers are growing at an equally rapid rate.

The essence of four generations.

We are driven by the same questions time and time again.

How can it be even simpler?
How can it be even better?
How it be even more intelligent?

5

The essence of our experience therefore has a new face.
Welcome to Loox5.

Easy.
Logical.
Linear.

Loox5

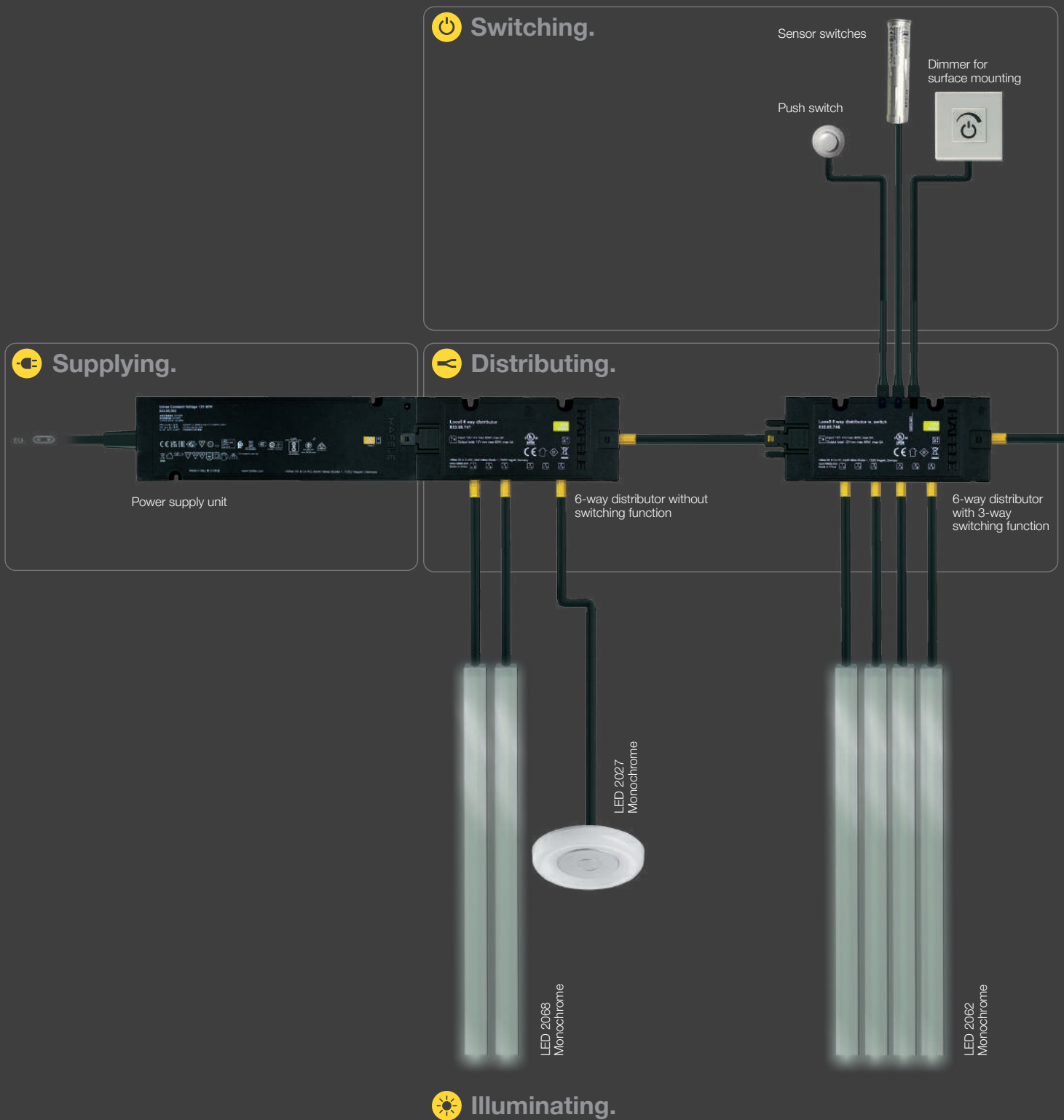
Colour codes.

Intu
con

Green-in-green
The Loox5 system with
24 volts

itive
__nec__tions.

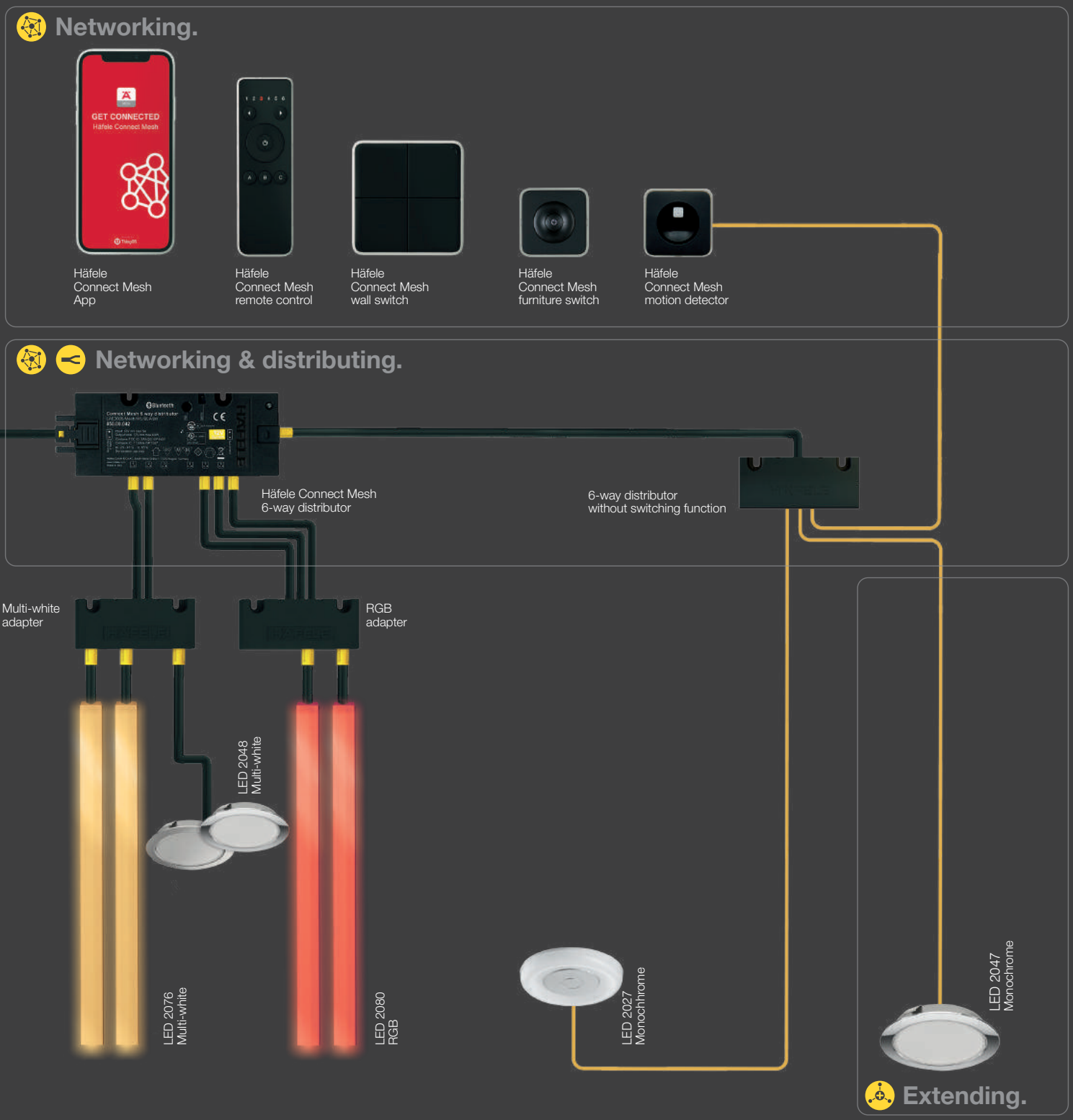
In praise of clear lines.



This overview shows a symbolic structure of the Loox5 system in order to depict its versatility.

An essential advantage of the system is connecting different distributors to a driver in a line, one after the other (box to box).

All of the components shown here are exemplary for the respective areas of the Loox5 system. In this brochure, you will find a wide range of other components for each area.



RGB, multi-white, monochrome light.
The Häfele Connect Mesh 6-way distributor
controls everything. At once. Wireless.

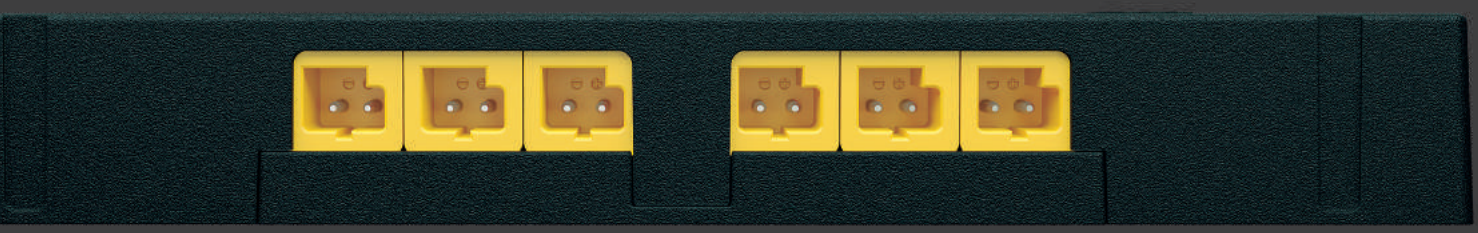
Intelligent light, intelligently solved.

All-in-one

—

The Loox5 light control.

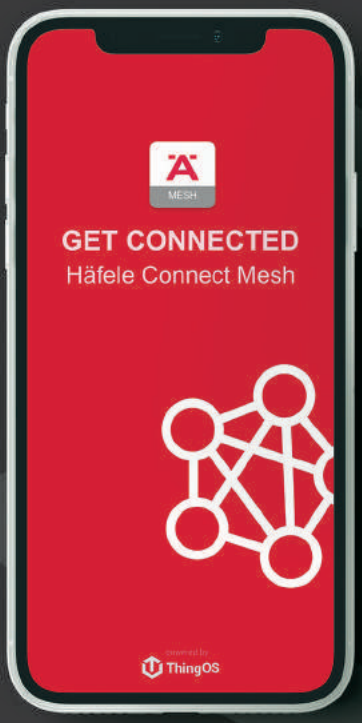
Häfele Connect Mesh 6-way distributor.



App
Häfele Connect Mesh

Wall mounted push button
Häfele Connect Mesh

Remote control
Häfele Connect Mesh



If we had to describe Häfele's Loox5 modular networking kit in one word it would be: EASY. Control light and configure lighting individually - it's that simple with the Loox5 system. Offering you compete control over the functionality and design of lighting in your home, is the Häfele BLE Connect Mesh Box which integrates all the Loox5 lights installed in your home to be operated via a single system. This is made extremely simple by the Häfele Connect Mesh App which carries out configuration and operation of the lights individually. In addition to the app, there are other control units available based on requirement - remote control, wall-mounted switches or sensors.

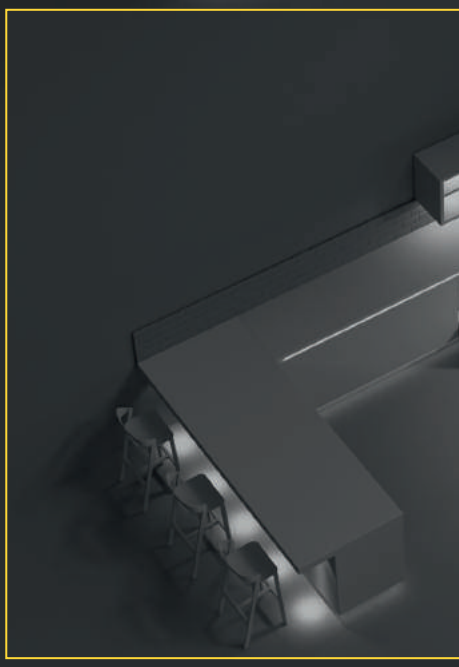
Integrating the Häfele Connect Mesh 2-channel interface also makes every standard wall mounted push button compatible with the application.

Light is multifaceted.

Manageable variables.
Endless possibilities.

Light colour	Monochrome | Multi-white | RGB
Light intensity	Task light | Ambient light | Accent/orientation light
Light source	Linear light | Point light
Alignment	Directly or indirectly | Up or down | Forward or backward | To the side
Position on the cabinet	Outside | Inside
Mounting type	Recess mounted | Surface mounted

Light in the sleeping area.
Ambience full of atmosphere for rest areas.



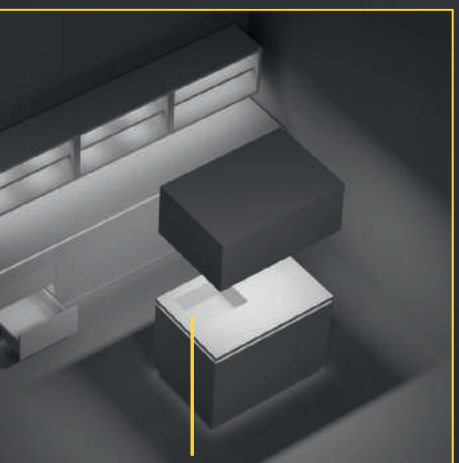
Light in the kitchen.
Functionality for every action.

Light colour Monochrome
Light intensity Ambient light
Light source Linear light
Alignment To the side
Installation type Attached at the side to the circular mounting plate behind the mirror
Example LED 3041, just 5 mm wide for filigree applications

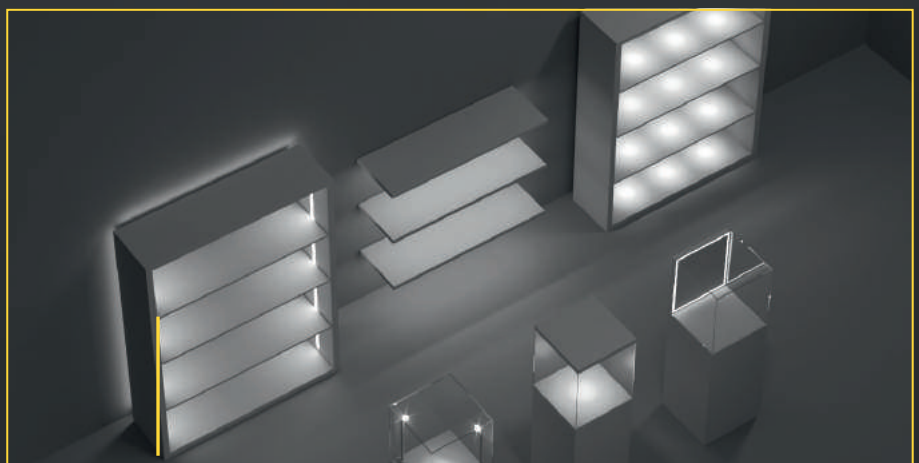
Light in the storage space.

Orientation for perfect organisation.

Light colour Monochrome
Light intensity Accent/orientation lighting
Light source Linear light
Alignment Down
Installation type Recess mounted
Example LED 2062



Light colour Monochrome
Light intensity Task light
Light source Linear light
Alignment Down
Installation type Recess mounted, several strips in parallel
Example LED 3048



Light colour Monochrome
Light intensity Task light
Light source Linear light
Alignment To the side
Position on the cabinet Inside
Installation type Recess mounted
Example LED 3052 with long-life constant current technology

Light in store fixtures.

Value for the presentation of goods.

Light is plannable.

The need to observe fewer planning steps structures and simplifies the planning of lighting in furniture.

Illuminating.

At the start of the development process, determine the lighting purposes of the furniture (multiple choices possible)
> Task light for pleasant and safe working
> Ambient lighting for highlighting, staging or emotionalising
> Accent/orientation light for storage spaces or paths
Also take into account the overall brightness of the room and the finishes to be illuminated: Sufficiently bright ceiling lighting or sunlight makes the orientation light unnecessary during the day, but at night it may be very pleasant if the ceiling lighting does not need to be used and a few furniture pieces provide some orientation light.
For confidence in the planning process, test lighting and finishes or use bright lighting with dimmers to achieve a balance of incident light and reflection.

The form factor of a light (linear, point) and the number used affects the planarity of the illumination. Light colour, installation type, position on the cabinet, and alignment are further criteria to select the perfect light.

Extending.

Häfele Loox5 drivers supply not only lights, but also charging stations (inductive and USB), audio systems, as well as electrically operated flap fittings, sliding doors, or TV lifts.
Take advantage of the potential of Häfele Loox5. Create furniture that can do more than simply look good.

The chapter structure of the Loox brochure simplifies the ordering process by using this simple planning process.

Take advantage of the potential of Häfele Loox5 and create furniture that can do more than simply look good.

Switching.

Plan switch requirements and switch positions. Simple mechanical switches or convenient sensors and dimmers can be grouped together by means of multi driver or multi switch boxes to conveniently operate lights from a single location or from different locations.

Networking.

The Häfele Connect Mesh 6-way distributor is the central element for controlling monochrome lights, multi-white lights, or RGB lights individually or jointly. 6-way distributors can be networked. They can be controlled by remote control, wall-mounted push button, or app.

Distributing.

Plan the routing of concealed cables and provide drill holes, grooves or panels. An extensive range of extension leads and distributors facilitates suitable cabling of your project.

Supplying.

Add up the wattage of all lights and other devices.
If necessary, take into account possible later expansion and select a driver of the appropriate performance class. Lights of the same voltage type or current may be connected to a common driver. Converters are also available and are necessary if lights with different voltage types and currents will share a driver.

Choose a distributor for your current needs (with or without switching function or with Häfele Connect Mesh). The distributor can be easily replaced at a later time. Therefore, make sure the drivers are accessible in the furniture.

Light is plannable.

MODULAR SYSTEM 1
LOOX5 MONOCHROME

All of the important system components on one page

Mains lead	
For drivers 20–90 W	> Page 124
Flat EU plug	**833.89.002**
Direct connection for screw fixing	**833.89.009**
For driver 240 W	> Page 124
3 pin EU plug	**833.89.265**

1. Illuminating

Linear light	
LED strip lights overview	> Page 40
Aluminium profiles overview	> Page 42

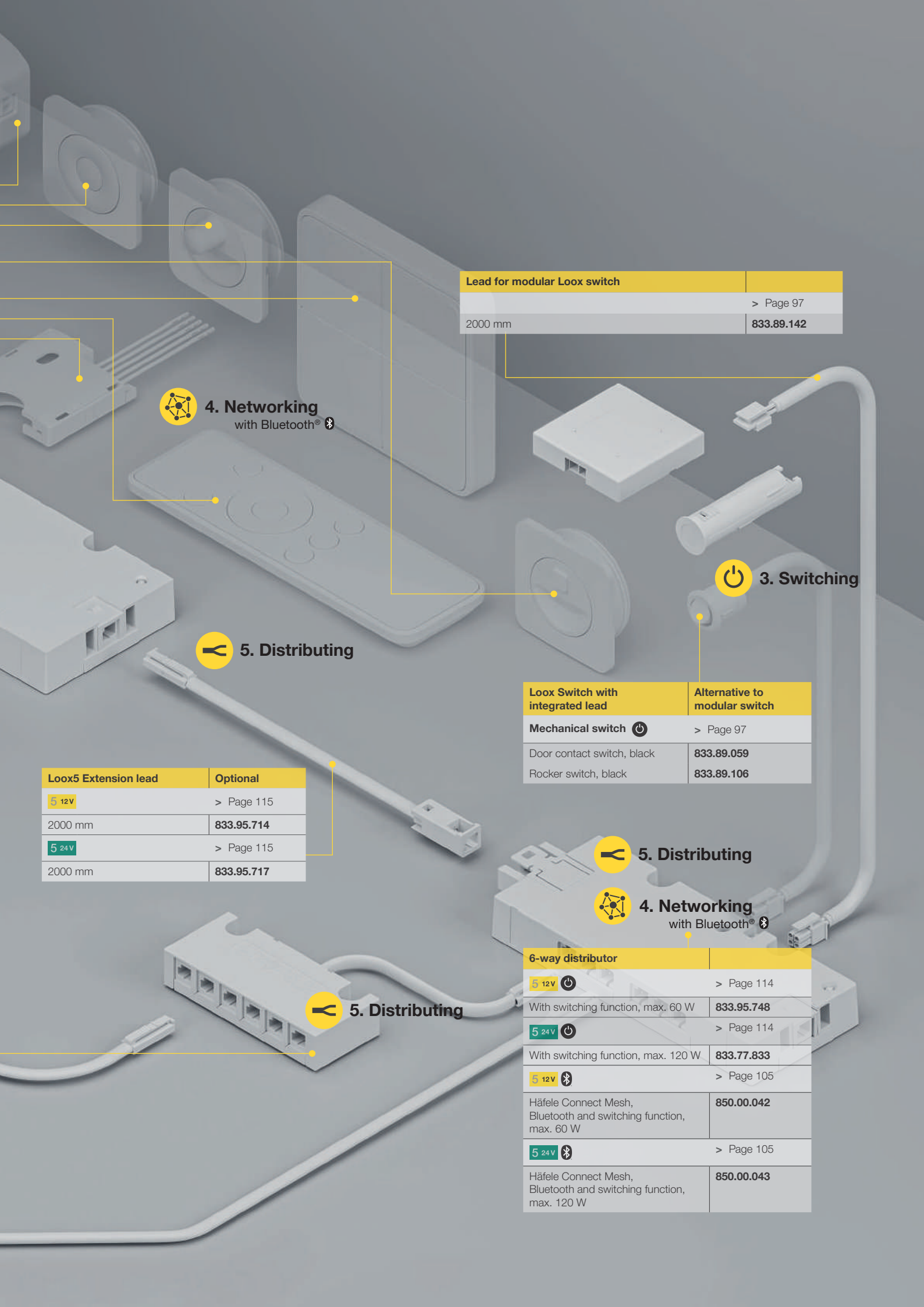
Point light	
Point light overview	> Page 80

Connect Mesh Controls	For Connect Mesh
	> Page 107
2-channel interface	**850.00.046**
Furniture switch	**850.00.952**
Motion detector	**850.00.953**
5 12 V Motion detector 12 V	**850.00.954**
5 24 V Motion detector 24 V	**850.00.955**
Wall mounted push button	**850.00.041**
Remote control	**850.00.040**
4-channel interface	**850.00.047**

6. Supplying

Loox5 Power supply unit	
5 12 V	> Page 129
20 W	**833.95.000/001**
40 W	**833.95.002**
60 W	**833.95.003**
5 24 V	> Page 131
20 W	**833.95.008/009**
40 W	**833.95.010**
90 W	**833.95.011**
	> Page 132
240 W	**833.95.012**

Loox5 6-way distributor with lead	Optional
5 12 V	> Page 106
Without switching function, max. 60 W	**833.95.786**
5 24 V	> Page 106
Without switching function, max. 120 W	**833.77.839**



Lead for modular Loox switch	
	> Page 97
2000 mm	**833.89.142**

4. Networking
with Bluetooth®

3. Switching

5. Distributing

Loox Switch with integrated lead	Alternative to modular switch
Mechanical switch	> Page 97
Door contact switch, black	**833.89.059**
Rocker switch, black	**833.89.106**

Loox5 Extension lead	Optional
5 12 V	> Page 115
2000 mm	**833.95.714**
5 24 V	> Page 115
2000 mm	**833.95.717**

5. Distributing

4. Networking
with Bluetooth®

5. Distributing

6-way distributor	
5 12 V	> Page 114
With switching function, max. 60 W	**833.95.748**
5 24 V	> Page 114
With switching function, max. 120 W	**833.77.833**
5 12 V	> Page 105
Häfele Connect Mesh, Bluetooth and switching function, max. 60 W	**850.00.042**
5 24 V	> Page 105
Häfele Connect Mesh, Bluetooth and switching function, max. 120 W	**850.00.043**

Light is plannable.

MODULAR SYSTEM 2
LOOX5 MULTI-WHITE AND RGB

All of the important system components on one page

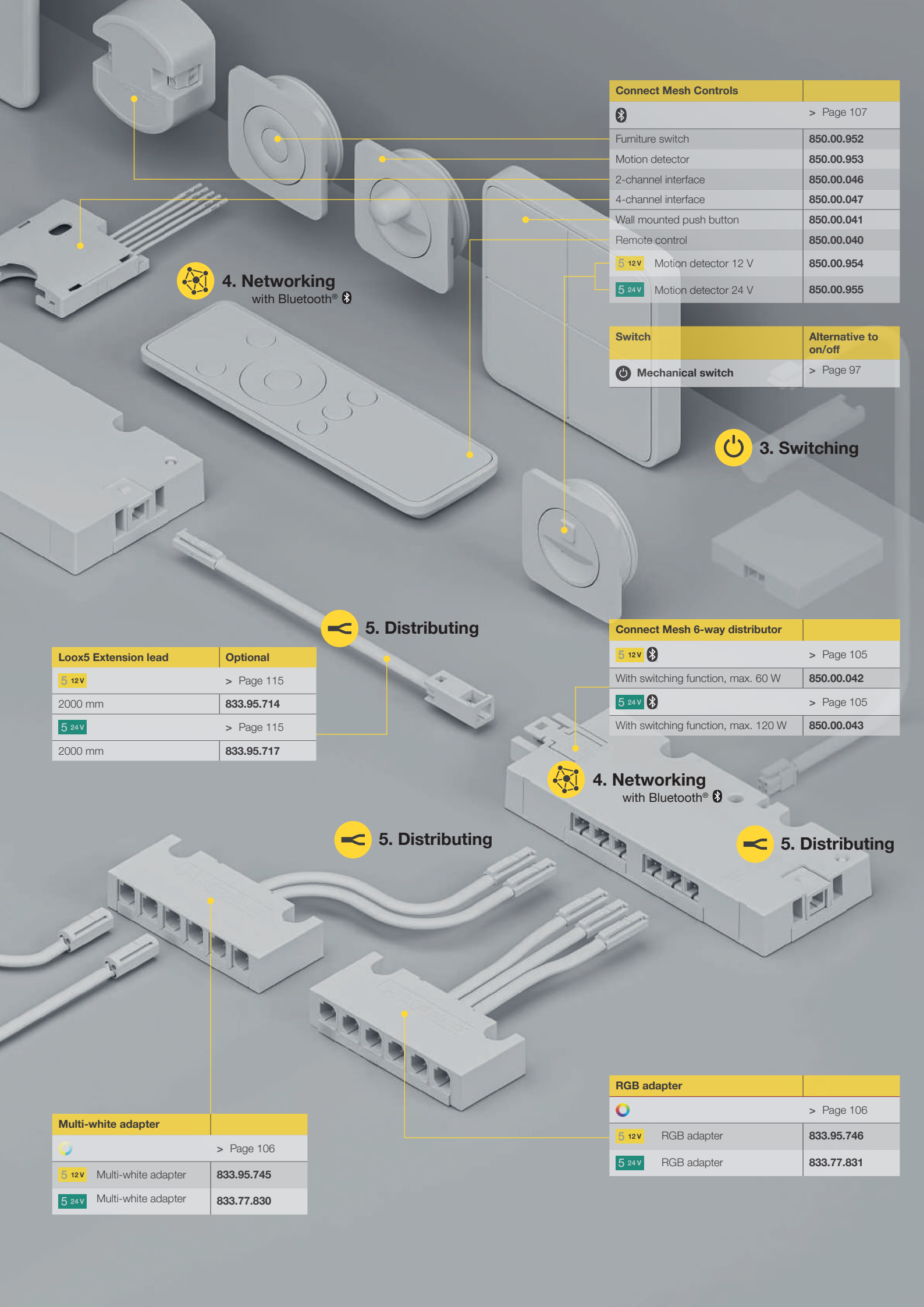
Mains lead	
For drivers 20–90 W	> Page 124
Flat EU plug	**833.89.002**
Direct connection for screw fixing	**833.89.009**
For driver 240 W	> Page 124
3 pin EU plug	**833.89.265**

6. Supplying

Loox5 Power supply unit	
5 12 V	> Page 129
20 W	**833.95.000/001**
40 W	**833.95.002**
60 W	**833.95.003**
5 24 V	> Page 131
20 W	**833.95.008/009**
40 W	**833.95.010**
90 W	**833.95.011**
	> Page 132
240 W	**833.95.012**

1. Illuminating

Multi-white lights	
Linear light	> Page 58
Point light	> Page 82



Connect Mesh Controls	
	> Page 107
Furniture switch	850.00.952
Motion detector	850.00.953
2-channel interface	850.00.046
4-channel interface	850.00.047
Wall mounted push button	850.00.041
Remote control	850.00.040
5 12 V Motion detector 12 V	850.00.954
5 24 V Motion detector 24 V	850.00.955

4. Networking
with Bluetooth®

Switch	Alternative to on/off
Mechanical switch	> Page 97

3. Switching

5. Distributing

Loox5 Extension lead	Optional
5 12 V	> Page 115
2000 mm	833.95.714
5 24 V	> Page 115
2000 mm	833.95.717

Connect Mesh 6-way distributor	
5 12 V	> Page 105
With switching function, max. 60 W	850.00.042
5 24 V	> Page 105
With switching function, max. 120 W	850.00.043

4. Networking
with Bluetooth®

5. Distributing

5. Distributing

Multi-white adapter	
	> Page 106
5 12 V Multi-white adapter	833.95.745
5 24 V Multi-white adapter	833.77.830

RGB adapter	
	> Page 106
5 12 V RGB adapter	833.95.746
5 24 V RGB adapter	833.77.831

LOX5

Linear light

Overview according to brightness

Task light >500 lx at a distance of 500 mm

					Max. illuminance at a distance of 500 mm lx	
LED 3041	24 V		5 mm	9.6 W/m	860	> Page 46
LED 3074	24 V		8 mm	9.6 W/m	990	> Page 48
LED 3071	24 V		8 mm	4.8 W/m	510	> Page 48
LED 3075	24 V		8 mm	14.4 W/m	1400	> Page 50
LED 3076	24 V		8 mm	19.2W/m	1810	> Page 52
LED 3046	24 V	Silicone sleeve	8 mm	9.6 W/m	860	> Page 54

Ambient light 150–500 lx at a distance of 500 mm

					Max. illuminance at a distance of 500 mm lx	
LED 3099	24 V		4 mm	9.6 W/m	215	> Page 56

Multi-white lights

					Max. illuminance at a distance of 500 mm lx	
LED 3014	24 V		8 mm	9.6 W/m	976	> Page 58
LED 3016	24 V		8 mm	14.4 W/m	1403	> Page 58

RGB lights

LED 3080	24 V		10 mm	9.6 W/m		> Page 59

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12 Volts or 24 Volts?

The application decides

If you bring light into your furniture and furnishings, you always have the choice between two voltage variants: **12 Volts** or **24 Volts**.

Both voltage variants are in the protective extra-low voltage range, and are therefore safe when installing the components. The decision essentially depends on your planned lighting system or the freedom that you want to give yourself when implementing your lighting solution.

The 12 Volt system.
> Suitable for smaller LED strip light lengths (up to a maximum of 4 metres).
> It is more flexible, because you can cut LED strip lights to length at shorter intervals (every 25 mm).
> Loses brightness as the strip light length increases.

The 24 Volt system.
> Suitable for longer LED strip lights (up to a maximum of 12 metres).
> LED strip lights can only be cut to length at longer intervals (every 50 mm).
> Because the current is lower, higher performance levels with greater brightness are possible.
> It also has stable brightness with long strip lights.
> Also the first choice for room lighting.

An Overview based on the strip light family and voltages

LOOX5

Type		LEDs/m	4.8 W/m	9.6 W/m	14.4 W/m	19.2 W/m
High Performance	5 mm **> Page 46**	120		5 24 V **3041**		
	8 mm silicone **> Page 54**	120		5 24 V **3046**		
Standard	8 mm **> Page 48, 52**	120	5 24 V **3071**	5 24 V **3074**		5 24 V **3076**
	8 mm **> Page 50**	140			5 24 V **3075**	
Multi-white	8 mm **> Page 58**	2 x 120		5 24 V **3014**	5 24 V **3016**	
RGB	10 mm **> Page 59**	120		5 24 V **3080**		
Lateral light emission	4 mm **> Page 56**	120		5 24 V **3099**		

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Linear light

Information – profiles with dimensions

Individual lighting solutions can be created with aluminium profiles and LED strip lights. The suitable aluminium profile can be found on the following pages clearly sorted by:

> Mounting type
> Width
> Material
> Suitability for LED strip lights

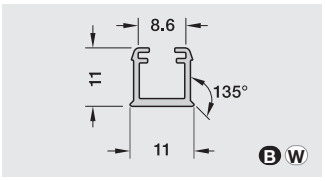
Plastic:

Ⓑ Black Ⓦ Opal white

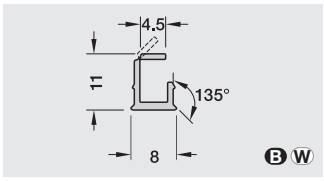
Aluminium anodized:

Ⓑ Black Ⓔ Brushed stainless steel coloured
Ⓢ Silver coloured

Profiles for recess mounting – plastic

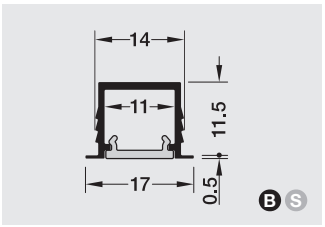


Profile 1101 > Page 67
for LED strip lights with a width of exactly 8 mm

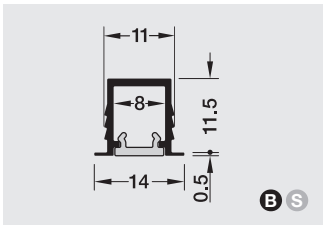


Profile 1102 > Page 67
for LED strip lights up to 5 mm wide

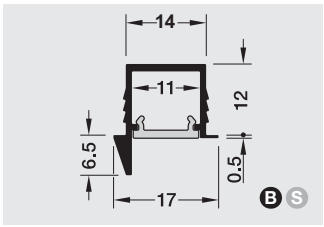
Profiles for recess mounting – aluminium



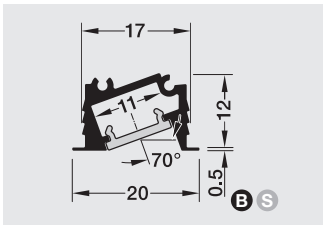
Profile 1103 > Page 61
for LED strip lights up to 8 mm



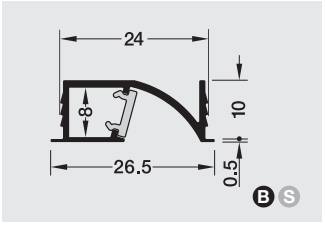
Profile 1104 > Page 61
for LED strip lights up to 5 mm wide



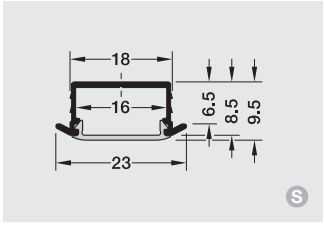
Profile 1105 > Page 62
for LED strip lights up to 8 mm wide, asymmetric light distribution



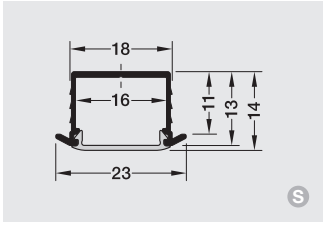
Profile 1106 > Page 66
for LED strip lights up to 5 mm wide, asymmetric light distribution



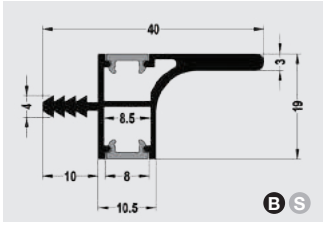
Profile 1107 > Page 66
for LED strip lights up to 5 mm wide, asymmetric light distribution



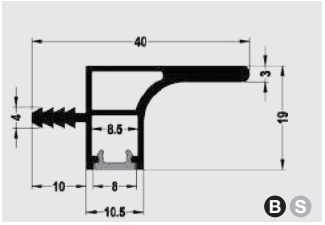
Hafele Loox Profile > Page 63
for LED strip lights up to 10 mm wide



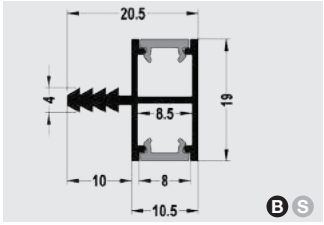
Hafele Loox Profile > Page 63
for LED strip lights up to 10 mm wide



Profile 7102 > Page 64
for LED strip lights up to 8 mm wide



Profile 7103 > Page 64
for LED strip lights up to 8 mm wide



Profile 7104 > Page 65
for LED strip lights up to 8 mm wide

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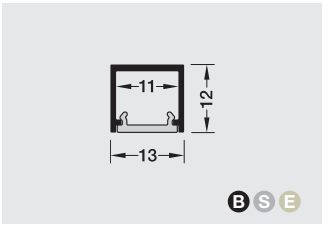
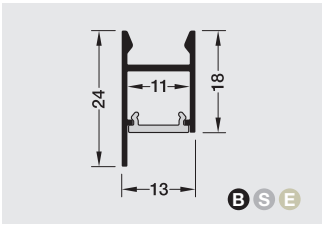
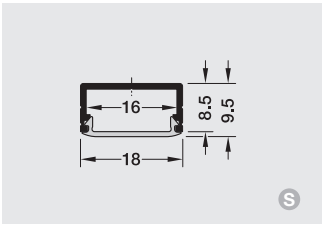
Surface mounted profiles – aluminium



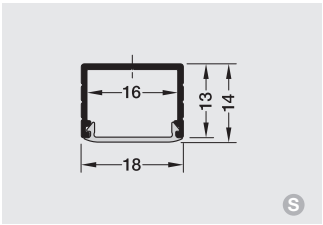
Profile 2102 > Page 68
for LED strip lights up to 8 mm wide



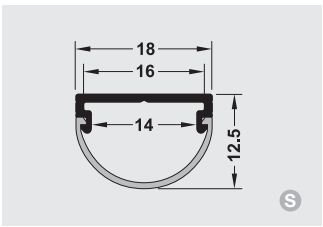
Profile 2104 > Page 70
for LED strip lights up to 8 mm wide, asymmetrical light distribution, concealed attachment with clip



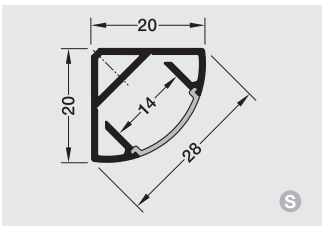
Hafele Loox Profile > Page 72
for LED strip lights up to 10 mm wide



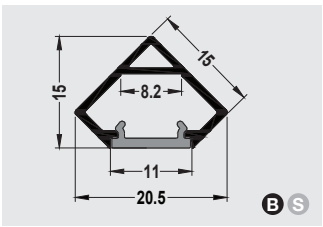
Hafele Loox Profile > Page 72
for LED strip lights up to 10 mm wide



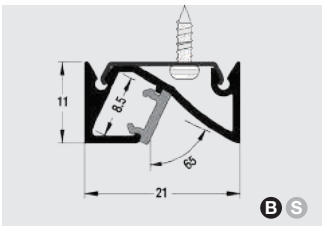
Hafele Loox Profile > Page 76
for LED strip lights up to 10 mm wide, with optional integrated door sensor or motion detector



Hafele Loox Profile > Page 73
for LED strip lights up to 10 mm wide

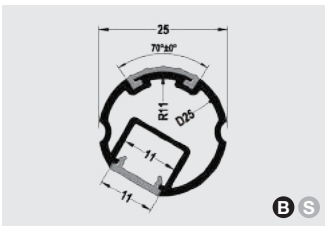


Profile 7106 > Page 74
for LED strip lights up to 10 mm wide

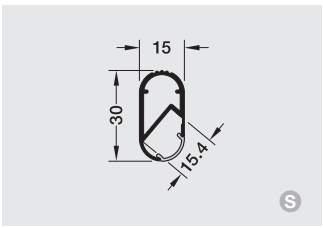


Profile 7107 > Page 75
for LED strip lights up to 10 mm wide

Wardrobe rail profiles – aluminium

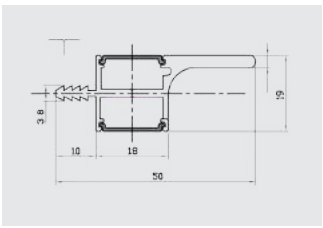


Profile 7105 > Page 77
for LED strip lights up to 10 mm wide, asymmetric light distribution



Hafele Loox Profile > Page 78
for LED strip lights up to 10 mm wide, asymmetric light distribution

Häfele two way aluminium profile



Häfele two way aluminium profile > Page 78
for LED strip lights 5 mm and 8 mm wide

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Point light

Ambient light

Stage furnishings with 150–500 lx at a distance of 500 mm

LED 2047	12 V	Recess/surface mounting	Drill hole Ø 55 mm	3.0 W	> Page 80
LED 2022	12 V	Recess/surface mounting	Drill hole Ø 26 mm	1.5 W	> Page 84
LED 2027	12 V	Surface mounting	Ø 65 mm	2.6 W	> Page 87

Accent/orientation light

Illuminate non-hazardous traffic areas and corridors or storage spaces with <150 lx at a distance of 500 mm

LED 2028	12 V	Recess mounting	Drill hole Ø 40 mm	0.3 W	> Page 86

Multi-white lights

LED 2048	12 V	Recess/surface mounting	Drill hole Ø 55 mm	3.0 W	> Page 82

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LED strip lights

monochrome, 5 mm

Häfele Loox5 LED 3041

LED 3041

EXTRA NARROW 5 mm

Equipped with high-quality Samsung LEDs

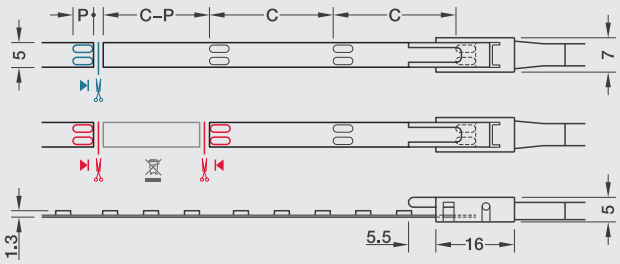
> Dimmable:	Yes
> Material:	Plastic
> Finish/colour:	White
> Width:	5 mm
> Height:	1.3 mm
> Life time L80/B10:	>50,000 h
> Life time L70/B50:	>80,000 h
> Degree of protection:	IP20
> Mounting:	Self-adhesive
> Supplied with:	1 roll

Illuminance value in lx applies to 1 m strip length:

2700 K	3000 K	4000 K	5000 K	120°	
1860 lx	1960 lx	2000 lx	2060 lx		250 mm
790 lx	850 lx	860 lx	860 lx		500 mm
440 lx	470 lx	480 lx	480 lx		750 mm
270 lx	290 lx	290 lx	290 lx		1000 mm

LED 3041

Order reference:
Please order lead separately.



Cut LED strip light to length
(one contact side remains with the offcut; can be re-used)
Connect LED strip lights
(two contact sides required)

C = cut length
P = contact surface length

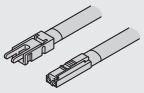
LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

10 YEARS GUARANTEE* IP20

Häfele Loox5 LED 3041

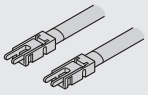
Voltage	Number of LEDs/m	Colour temperature	Wattage	Luminous flux	Luminous efficiency	Colour rendering index CRI		Energy efficiency class	Section length C	Length of contact surface P	Max. strip length (visual)	Available length	
V		K	W/m	lm/m	lm/W	R_a	R_9		mm	mm	m	5 m	15 m
	Häfele Loox5 LED 3041												
5 24 V	120	2700	9.6	870	91	>90	>50	G	50	3	5.5	**833.76.308**	**833.76.312**
		3000	9.6	930	97	>90	>50	F	50	3	5.5	**833.76.309**	**833.76.313**
		4000	9.6	955	99	>90	>50	F	50	3	5.5	**833.76.310**	**833.76.314**
		5000	9.6	990	103	>90	>50	F	50	3	5.5	**833.76.311**	-

Maximum visual strip length applies for an imperceptible drop in luminous flux of max. 30%.



> 3.5 A/20 AWG lead
for LED strip light 5 mm

Voltage	Length mm	Cat. No.
5 24 V	2000	**833.95.711**



> 3.5 A/20 AWG interconnecting lead
for 5 mm LED strip light

Length mm	Cat. No.
500	**833.89.195**

> 3.5 A clip connector
for 5 mm LED strip light

	Cat. No.
Clip connector	**833.89.207**

> Corner connector, 90° rigid, 3.5 A
for 5 mm LED strip light, left or right application

	Cat. No.
Corner connector rigid	**833.89.190**

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

LED strip lights

Monochrome 8mm

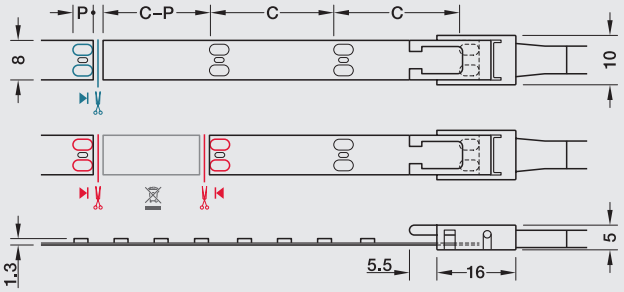
Häfele Loox5 LED 3071 / 3074; Standard

> Dimmable:	Yes
> Material:	Plastic
> Finish/colour:	White
> Width:	8 mm
> Height:	1.3 mm
> Life time L80/B10:	>30,000 h
> Length Contact Surface P:	3.9 mm
> Energy efficiency class:	A+
> Degree of protection:	IP20
> Mounting:	Self-adhesive
> Supplied with:	1 roll

Illuminance value in lx applies to 1 m strip length:

2700 K	3000 K	4000 K	5000 K	120°	
1140 lx	1190 lx	1250 lx	1250 lx		250 mm
470 lx	490 lx	510 lx	510 lx		500 mm
250 lx	265 lx	280 lx	280 lx		750 mm
155 lx	160 lx	170 lx	170 lx		1000 mm

LED 3071

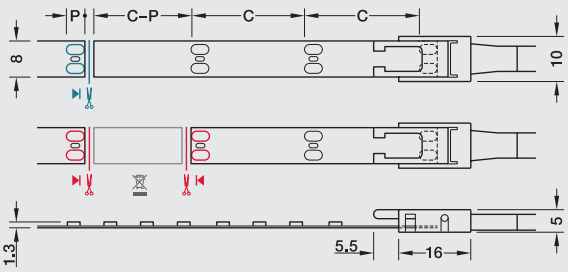


Cut LED strip light to length
(one contact side remains with the offcut; can be re-used)
Connect LED strip lights
(two contact sides required)

C = cut length
P = contact surface length

2700 K	3000 K	4000 K	5000 K	120°	
2230 lx	2270 lx	2400 lx	2400 lx		250 mm
925 lx	940 lx	990 lx	990 lx		500 mm
500 lx	505 lx	530 lx	530 lx		750 mm
305 lx	310 lx	330 lx	320 lx		1000 mm

LED 3074



Cut LED strip light to length
(one contact side remains with the offcut; can be re-used)
Connect LED strip lights
(two contact sides required)

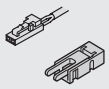
C = cut length
P = contact surface length

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

10 YEARS GUARANTEE* IP20

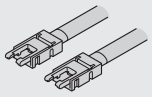
Häfele Loox5 LED 3071 / 3074; Standard

Voltage V	Number of LEDs/m	Colour temperature K	Wattage W/m	Luminous flux lm/m	Luminous efficiency lm/W	Colour rendering index CRI R_a	Colour rendering index CRI R_9	Weighted energy consumption kWh/1000 h	Energy efficiency class	Section length C mm	Available length 5 m	Available length 50 m	Max. strip length (lumen maintenance 30 %) mm
5 24 V	**Häfele Loox5 LED 3071**												
	120	2700	4.8	435	91	>90	>50	5.38	A+	50	**833.75.210**	**833.75.215**	9.50
		3000		460	96						**833.75.211**	**833.75.216**	
		4000		480	100						**833.75.212**	**833.75.217**	
		5000		480	100						**833.75.213**	**833.75.218**	
	Häfele Loox5 LED 3074												
	120	2700	9.6	830	86	>90	>50	10.56	A+	50	**833.75.240**	**833.75.245**	6.50
		3000		905	94						**833.75.241**	**833.75.246**	
		4000		960	100						**833.75.242**	**833.75.247**	
		5000		940	98						**833.75.243**	**833.75.248**	



> 3.5 A/20 AWG lead for LED strip light 8 mm

Voltage	Length mm	Cat. No.
5 24 V	2000	**833.75.705**



> 5 A/18 AWG interconnecting lead for 8 mm LED strip light

Length mm	Cat. No.
500	**833.89.192**

> 5 A clip connector for 8 mm LED strip light

	Cat. No.
Clip connector	**833.89.206**

> Corner connector, 90° rigid, 5 A for left or right for 8 mm LED strip light

	Cat. No.
Corner connector rigid	**833.89.187**

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

LED strip lights

Monochrome 8mm

Häfele Loox5 LED 3075; Standard

LED 3075

- > Dimmable: Yes
- > Material: Plastic
- > Finish/Colour: White
- > Width: 8 mm
- > Height: 1.3 mm
- > Life Time L80/B10: >30,000 h
- > Length Contact Surface P: 3.9 mm
- > Energy Efficiency Class: A+
- > Degree of Protection: IP20
- > Installation: Self-adhesive
- > Supplied with: 1 roll

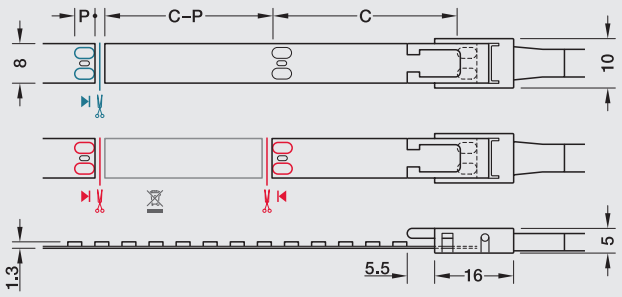
Maximum strip length (visual) describes a strip section with a visually imperceptible drop in luminous flux of max. 30 %.
Please note: A strip section with a new power supply that follows immediately is noticeably brighter.
Please calculate max. strip light length on driver in accordance with power output: Length = power output of one driver socket/ output per metre.

Order reference
Please order lead separately.

Illuminance value lx applies to 1 m strip length:

2700 K	3000 K	4000 K	5000 K	120°
3135 lx	3305 lx	3400 lx	3400 lx	250 mm
1295 lx	1365 lx	1400 lx	1400 lx	500 mm
695 lx	735 lx	750 lx	750 lx	750 mm
425 lx	450 lx	460 lx	460 lx	1000 mm

LED 3075



Cut LED strip light to length
(one contact side remains with the offcut; can be re-used)
Connect LED strip lights
(two contact sides required)

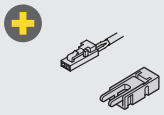
C = cut length
P = contact surface length

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

10 YEARS GUARANTEE* IP20 A+

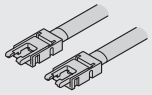
Häfele Loox5 LED 3075; Standard

Voltage	Number of LEDs/m	Colour temperature	Wattage	Luminous flux	Luminous efficiency	Colour rendering index	Weighted energy consumption	Section length C	Max. strip length (visual)	Available length	
V		K	W/m	lm/m	lm/W	R_a	kWh/ 1000 h	mm	m	5 m	50 m
Häfele Loox5 LED 3075											
5 24 V	140	2700	14.4	1430	99	>90	15.84	50	4.5	**833.75.200**	**833.75.204**
		3000		1500	104	>90	15.84	50	4.5	**833.75.201**	**833.75.205**
		4000		1550	108	>90	15.84	50	4.5	**833.75.202**	**833.75.206**
		5000		1570	109	>90	15.84	50	4.5	**833.75.203**	**833.75.207**



> 3.5 A/20 AWG lead for LED strip light 8 mm

Voltage	Length mm	Cat. No.
5 24 V	2000	**833.75.705**



> 5 A/18 AWG interconnecting lead for 8 mm LED strip light

Length mm	Cat. No.
500	**833.89.192**

> 5 A clip connector for 8 mm LED strip light

	Cat. No.
Clip connector	**833.89.206**

> Corner connector, 90° rigid, 5 A for left or right for 8 mm LED strip light

	Cat. No.
Corner connector rigid	**833.89.187**

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

LED strip lights

Monochrome 8mm

Häfele Loox5 LED 3076 ; Standard

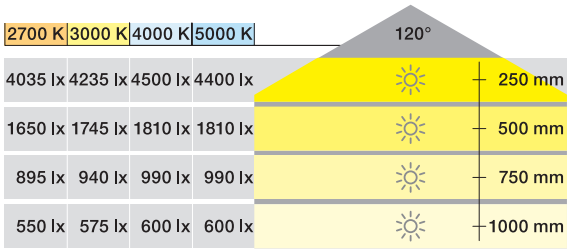
LED 3076

- Dimmable: Yes
- Material: Plastic
- Finish/Colour: White
- Width: 8 mm
- Height: 1.3 mm
- Life Time L80/B10: >30,000 h
- Length Contact Surface P: 4 mm
- Energy efficiency class: A+
- Degree of protection: IP20
- Installation: Self-adhesive
- Supplied with: 1 roll

Maximum strip length (visual) describes a strip section with a visually imperceptible drop in luminous flux of max. 30 %.
Please note: A strip section with a new power supply that follows immediately is noticeably brighter.
Please calculate max. strip light length on driver in accordance with power output: Length = power output of one driver socket / output per metre.

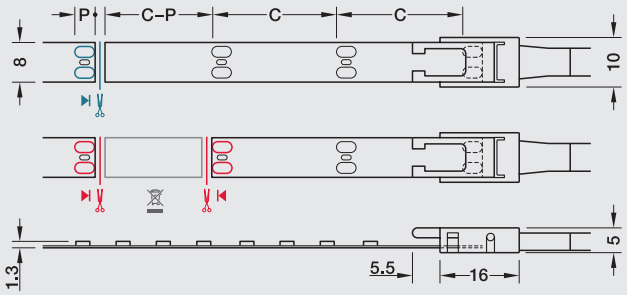
Order reference
Please order lead separately.

Illuminance value lx applies to 1 m strip length:



LED 3076

Note
The Häfele Loox5 LED 3076 LED strip light requires cooling through an aluminum profile with a cross-section > 45 mm².
Suitable profiles are e.g. Loox5 1105 and 1106 profiles for recess mounting and 2104 profiles for under mounting.



Cut LED strip light to length
(one contact side remains with the offcut; can be re-used)
Connect LED strip lights
(two contact sides required)

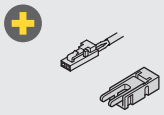
C = cut length
P = contact surface length

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

10 YEARS GUARANTEE* IP20 A+

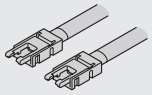
Häfele Loox5 LED 3076; Standard

Voltage	Number of LEDs/m	Colour temperature	Wattage	Luminous flux	Luminous efficiency	Colour rendering index	Weighted energy consumption	Section length C	Max. strip length (visual)	Available length	
V		K	W/m	lm/m	lm/W	R_a	kWh/ 1000 h	mm	m	5 m	50 m
Häfele Loox5 LED 3076											
5 24 V	120	2700	19.2	1490	78	>90	21.12	50	5.0	**833.75.250**	**833.75.255**
		3000		1610	84	>90	21.12	50	5.0	**833.75.251**	**833.75.256**
		4000		1670	87	>90	21.12	50	5.0	**833.75.252**	**833.75.257**
		5000		1700	89	>90	21.12	50	5.0	**833.75.253**	**833.75.258**



> 3.5 A/20 AWG lead for LED strip light 8 mm

Voltage	Length mm	Cat. No.
5 24 V	2000	**833.75.705**



> 5 A/18 AWG interconnecting lead for 8 mm LED strip light

Length mm	Cat. No.
500	**833.89.192**

> 5 A clip connector for 8 mm LED strip light

	Cat. No.
Clip connector	**833.89.206**

> Corner connector, 90° rigid, 5 A for left or right for 8 mm LED strip light

	Cat. No.
Corner connector rigid	**833.89.187**

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

LED silicone strip lights

monochrome, 8 mm

Häfele Loox5 LED 3046

LED 3046

Illuminance value in lx applies to 1 m strip length:

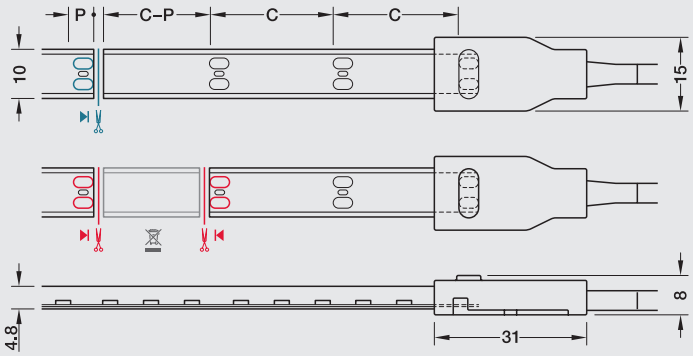
2700 K	3000 K	4000 K	5000 K	120°	
1855 lx	1895 lx	1960 lx	2020 lx		250 mm
790 lx	805 lx	840 lx	860 lx		500 mm
435 lx	445 lx	465 lx	475 lx		750 mm
270 lx	275 lx	290 lx	295 lx		1000 mm

LED 3046

Equipped with high-quality Samsung LEDs

> Dimmable:	Yes
> Material:	Silicone
> Finish/colour:	White
> Width:	Strip: 8 mm, silicone sleeve: 10 mm
> Height:	Strip: 1.3 mm, silicone sleeve: 4.8 mm
> Life time L80/B10:	>50,000 h
> Life time L70/B50:	>80,000 h
> Degree of protection:	IP44 / optional IP20
> Mounting:	Self-adhesive
> Supplied with:	1 roll

Order reference:
Please order lead separately.



Cut LED strip light to length
(one contact side remains on the remainder piece; reusable)
Connect LED strip lights
(two contact sides required)

C = cut length
P = contact surface length

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

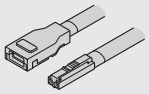
10 YEARS GUARANTEE* IP44

Häfele Loox5 LED 3046

Voltage V	Number of LEDs/m	Colour temperature K	Wattage W/m	Luminous flux lm/m	Luminous efficiency lm/W	Colour rendering index CRI R_a	R_9	Energy efficiency class	Section length C mm	Length of contact surface P mm	Max. strip length (visual) m	Available length 5 m
	Häfele Loox5 LED 3046											
5 24 V	120	2700	9.6	820	85	>90	>50	G	50	4	8.0	**833.76.342**
		3000	9.6	870	91	>90	>50	G	50	4	8.0	**833.76.343**
		4000	9.6	900	94	>90	>50	F	50	4	8.0	**833.76.344**
		5000	9.6	930	97	>90	>50	F	50	4	8.0	**833.76.345**

Maximum visual strip length applies for an imperceptible drop in luminous flux of max. 30%.

Degree of protection IP44



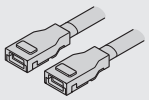
> 5 A/18 AWG lead
for 8 mm LED silicone strip light

Voltage	Length mm	Cat. No.
5 24 V	2000	**833.95.709**

> End cap set with adhesive
for 8 mm LED silicone strip light

for sealing the shortened silicone sleeve; achieves degree of protection IP44

	Cat. No.
Set of 5, with 5 ml adhesive	**833.89.184**



> 5 A/18 AWG interconnecting lead
for 8 mm LED silicone strip light

Length mm	Cat. No.
500	**833.89.204**

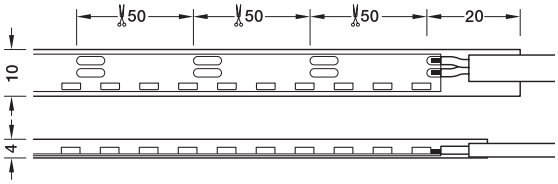
LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

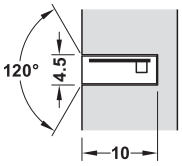
LED silicone strip lights

monochrome, lateral light emission

Häfele Loox5 LED 3099

LED 3099





Installation in groove

Lateral light emission, IP44

> Light opening at the narrow side, no visible LED points
> Slight groove (width 4 mm) and flat surface, shelves remain adjustable
> Wave and ring shaped installation possible (radius min. 30 mm)
> Can be split once: Both pieces with separate lead
> Splash proof for use in wet rooms

> Finish/colour:	Matt white
> Width:	Strip: 8 mm, silicone sleeve: 10 mm
> Height: silicone sleeve:	4 mm
> Life time L80/B10:	>50,000 h
> Energy efficiency class:	G
> Degree of protection:	IP44
> Mounting:	For press fitting into groove
> Routing width:	4.5 mm
> Routing depth:	10 mm
> Supplied with:	1 roll with 2 x 0.2 m soldered lead 3.5 A/20 AWG (1 each on the left/right of the strip)

Illuminance in lx in relation to 1 m strip length:

2700 K	3000 K	4000 K	5000 K	120°
820 lx	840 lx	845 lx	860 lx	250 mm
190 lx	195 lx	205 lx	215 lx	500 mm
85 lx	90 lx	100 lx	100 lx	750 mm
50 lx	50 lx	55 lx	55 lx	1000 mm

LED 3099

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10 YEARS GUARANTEE* IP44

Häfele Loox5 LED 3099

Voltage V	Number of LEDs/m	Colour temperature K	Wattage W/m	Luminous flux lm/m	Luminous efficiency lm/W	Colour rendering index CRI R_a	R_9	Section length C mm	Length of contact surface P mm	Max. strip length (visual) m	Available length 3 m	5 m
	Häfele Loox5 LED 3099											
5 24 V	120	2700	9.6	500	52	>90	>50	50	6	3.0	**833.75.260**	**833.75.265**
		3000	9.6	520	54	>90	>50	50	6	3.0	**833.75.261**	**833.75.266**
		4000	9.6	540	56	>90	>50	50	6	3.0	**833.75.262**	**833.75.267**
		5000	9.6	540	56	>90	>50	50	6	3.0	**833.75.263**	**833.75.268**

Maximum visual strip length applies for an imperceptible drop in luminous flux of max. 30%.

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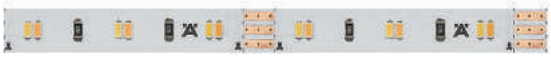
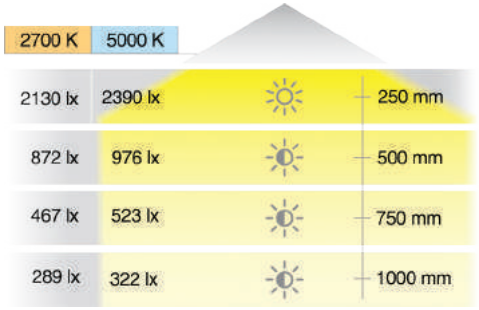
LED strip lights

multi-white

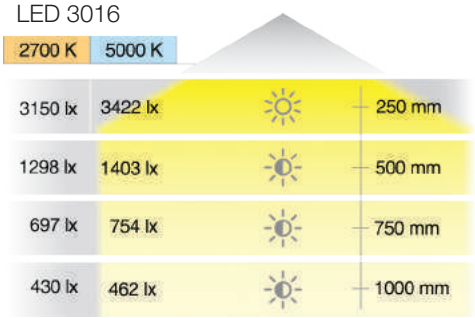
Häfele Loox5 LED 3014 / 3016



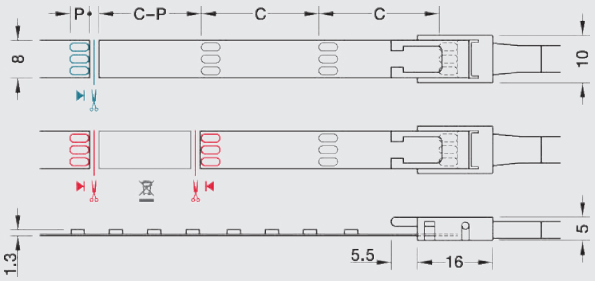
LED 3014



LED 3016



> Dimmable:	Yes
> Finish/colour:	White
> Length:	5000 mm / 50000 mm
> Width:	8 mm
> Height:	1.3 mm
> Lifetime L80/B10:	> 30,000 hours
> Energy efficiency class:	A+
> Degree of protection:	IP20
> Mounting:	Self adhesive

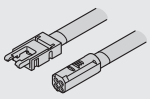


Cut LED strip light to length
(one contact side remains with the offcut; can be re-used)

Connect LED strip lights
(two contact sides required)

C = cut length
P = contact surface length

> 3.5 A/20 AWG lead for 8 mm multi-white LED strip light



Voltage	Length (mm)	Cat. No.
5 12 V	2000	833.95.702
5 24 V	2000	833.95.708

Voltage	Number of LEDs/m	Colour temperature	Wattage	Luminous flux	Luminous efficiency	Colour rendering index		Weighted energy consumption	Section length C	Contact surface Length P	Available Length	
V		K	W/m	lm/m	lm/W	R_a	R_9	kWh/ 1000 h	mm	mm	5m	50 m
	Häfele Loox5 LED 3014											
	2× 120	2700	9.6	866	88	>90	>50	5.28	50	4	**833.72.270**	**833.72.271**
		5000		950	96							
5 24 V	**Häfele Loox5 LED 3016**											
	2× 120	2700	14.4	1296	91	>90	>50	10.56	50	3.5	**833.77.280**	**833.77.281**
		5000		1409	97							

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10 YEARS GUARANTEE* IP20

LED strip lights

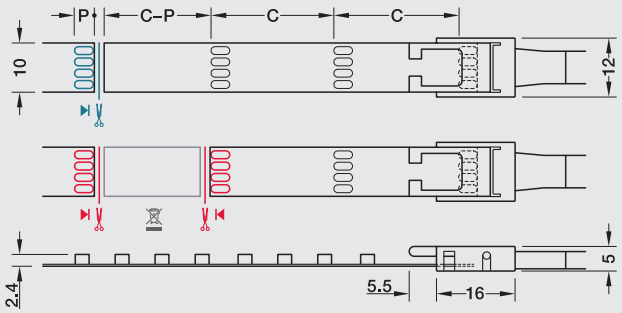
RGB, 10 mm

Häfele Loox5 LED 3080

LED 3080

> Dimmable:	Yes
> Material:	Plastic
> Finish/colour:	White
> Width:	10 mm
> Height:	2.4 mm
> Degree of protection:	IP20
> Mounting:	Self-adhesive
> Supplied with:	1 roll

Order reference:
Please order lead separately.



Cut LED strip light to length
(one contact side remains on the remainder piece; reusable)
Connect LED strip lights
(two contact sides required)

C = cut length
P = contact surface length

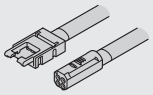
Ordering instruction
Accessories are required for controlling RGB lights.
Please order separately, see chapter Networking, page 102.

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Häfele Loox5 LED 3080

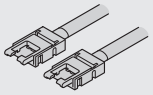
Voltage V	Number of LEDs/m	Colour temperature K	Wattage W/m	Luminous flux lm/m	Luminous efficiency lm/W	Section length C mm	Length of contact surface P mm	Max. strip length (visual) m	Available length 5 m
5 24 V	**Häfele Loox5 LED 3080**								
	120	RGB	9.6	530	51	50	3.8	6.5	**833.76.386**

Maximum visual strip length applies for an imperceptible drop in luminous flux of max. 30%.



> 3.5 A/20 AWG lead
for LED RGB strip light, 10 mm

Voltage	Length mm	Cat. No.
5 24 V	2000	**833.95.710**

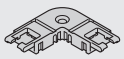


> 3.5 A/20 AWG interconnecting lead
for LED RGB strip light, 10 mm

Length mm	Cat. No.
500	**833.89.201**

> 3.5 A clip connector
for LED RGB strip light, 10 mm

	Cat. No.
Clip connector	**833.89.209**



> Corner connector, 90° rigid, 3.5 A
for left or right for LED RGB strip light, 10 mm

	Cat. No.
Corner connector rigid	**833.89.189**

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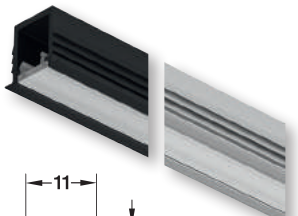
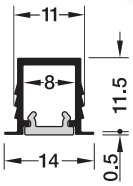
Profiles for recess mounting

Aluminium

Häfele Loox5 profile 1104/1103

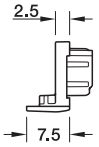
Häfele Loox5 profile 1104





[routing dimensions]

End caps

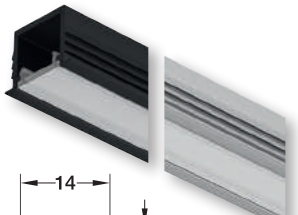


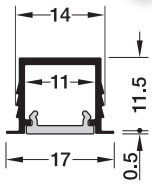
> Material:	Profile: aluminium, diffuser: polycarbonate
> Finish/colour:	Profile: anodized, diffuser: opal white, light permeability 70–80 %
> Length:	3000 mm
> Diffuser width:	Profile 1104: 8 mm Profile 1103: 11 mm
> Supplied with:	1 aluminium profile 1 diffuser opal white

Colour	Profile 1104	Profile 1103
Black	**833.95.725**	**833.95.723**
Silver coloured	**833.95.724**	**833.95.722**

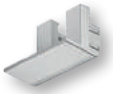
Note
Profile 1104 suitable for use with LED strip lights max. 5 mm wide.

Häfele Loox5 profile 1103

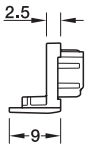




[routing dimensions]



End caps



End caps for Häfele Loox5 profile 1104, 1103

> Material:	Plastic
> Version:	With cable outlet
> Packing:	10 piece

Colour	End cap 1104	End cap 1103
Black	**833.95.769**	**833.95.767**
Silver coloured	**833.95.768**	**833.95.766**

Diffusers
The diffuser creates a uniform light.
The LED points are invisible from 120 LEDs/m.
If required, please order alternative diffusers in black or transparent separately.

Diffusers see page 79

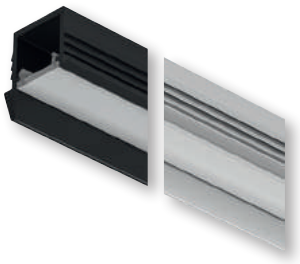
LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Profiles for recess mounting

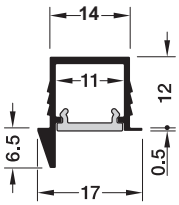
Aluminium

Häfele Loox5 profile 1105, asymmetric light distribution

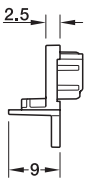
Häfele Loox5 profile 1105



End caps



[routing dimensions]



> Material:	Profile: aluminium, diffuser: polycarbonate
> Finish/colour:	Profile: anodized, diffuser: opal white, light permeability 70–80 %
> Length:	3000 mm
> Diffuser width:	11 mm
> Supplied with:	1 aluminium profile 1 diffuser opal white

Colour	Cat. No.
Black	**833.95.727**
Silver coloured	**833.95.726**

End caps for Häfele Loox5 profile 1105

> Material:	Plastic
> Version:	With cable outlet
> Packing:	10 pieces

Colour	Cat. No.
Black	**833.95.771**
Silver coloured	**833.95.770**

Anti-glare shield
Asymmetric light distribution allows for a glare-free light source.

Diffusers
The diffuser creates a uniform light.
The LED points are invisible from 120 LEDs/m.
If required, please order alternative diffusers in black or transparent separately.

Diffusers see page 79

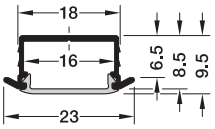
LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Profiles for recess mounting

Aluminium

Häfele Loox profile for recess mounting

End cap



> Material: Aluminium
> Finish/colour: Silver coloured anodized
> Length x width: 2500 x 18 mm
> Height: 8.5 mm
> Supplied with: 1 profile, 1 diffuser

Colour	Cat. No.
Silver coloured with milky diffuser	**833.72.844**

LED points are always visible when this profile is used

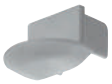
End cap with cable outlet for 833.72.844

> Material: Plastic
> Supplied with: 2 pieces

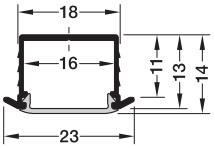
Colour	Cat. No.
Silver coloured	**833.72.855**

Diffusers see page 79

Häfele Loox profile for recess mounting



End cap



> Material: Aluminium
> Finish/colour: Silver coloured anodized
> Length x width: 2500 x 18 mm
> Height: 13 mm
> Supplied with: 1 profile, 1 diffuser

Colour	Cat. No.
Silver coloured with milky diffuser	**833.72.846**

End cap with cable outlet for 833.72.846

> Material: Plastic, silver coloured
> Supplied with: 2 pieces

Colour	Cat. No.
Silver coloured	**833.72.854**

Diffusers see page 79

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Profiles for recess mounting

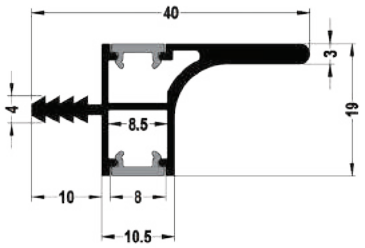
Aluminium

Häfele Loox two-way profile for recess mounting 7102

The 3-in-1 Two-way Handle Profile comes with a Gola profile handle that provides a groove for opening shutters and acts as a dual lighting source for both inner cabinet as well as under-cabinet area.

833.16.179
Silver

833.16.178
Black



Features

> Sleek Design
> 3-in-1 profile: Top and Bottom Illumination with Gola Profile Handle

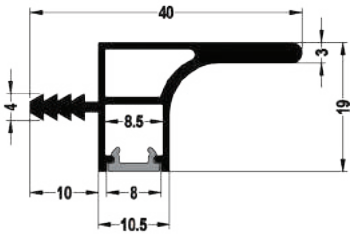
> Material: Profile: Aluminium, Diffuser: Plastic
> Finish/ Colour: Profile: Silver and Black
Diffuser: White Opal
> Length × Width: 2500 mm × 40 mm
> Height: 19 mm
> Application: Bottom Panel of Overhead Wall Cabinets in Kitchen and Study Areas
> Mounting: Recess Mounted
> Diffuser Details: Flat Diffuser with No Protrusion
Easy to Clean
Transmittance 70-80%
> Supplied With: 1 Aluminium Profile
2 Diffusers

Description	Finish	Cat. No.
7102 Two Way Profile	Silver	**833.16.179**
7102 Two Way Profile	Black	**833.16.178**

Häfele Loox one-way profile for recess mounting 7103

833.16.177
Silver

833.16.176
Black



Features

> Sleek Design
> 2 in 1 Profile: Bottom Illumination With Gola Profile Handle

> Material: Profile: Aluminium, Diffuser: Plastic
> Finish/ Colour: Profile: Silver and Black
Diffuser: White Opal
> Length × Width: 2500 mm × 40 mm
> Height: 19 mm
> Application: Bottom Panel of Cabinets for Kitchen and Study Areas
> Mounting: Recess Mounted
> Diffuser Details: Flat Diffuser with No Protrusion
Easy to Clean
Transmittance 70-80%
> Supplied With: 1 Aluminium Profile
1 Diffuser

Description	Finish	Cat. No.
7103 One Way Profile	Silver	**833.16.177**
7103 One Way Profile	Black	**833.16.176**

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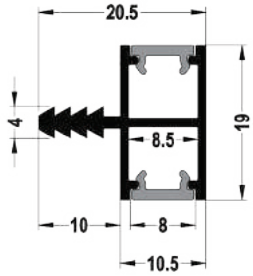
Profiles for recess mounting

Aluminium

Häfele Loox two-way shelf profile for recess mounting 7104

833.16.175
Silver

833.16.174
Black



Features

> Innovative concept of two-way shelf profile design for dual illumination
> Two way illumination from top and bottom catering to two areas simultaneously

> Material: Profile: Aluminium, Diffuser: Plastic
> Finish/ Colour: Profile: Silver and Black
Diffuser: White Opal
> Length × Width: 2500 mm × 20.5 mm
> Height: 19 mm
> Application: Wardrobes, Kitchen Cabinets, Bookshelves and TV Units
> Mounting: Recess Mounted
> Diffuser Details: Flat Diffuser with No Protrusion
Easy to Clean
Transmittance 70-80%
> Supplied With: 1 Aluminium Profile
2 Diffusers

Description	Finish	Cat. No.
7104 Two-way Shelf Profile	Silver	**833.16.175**
7104 Two-way Shelf Profile	Black	**833.16.174**

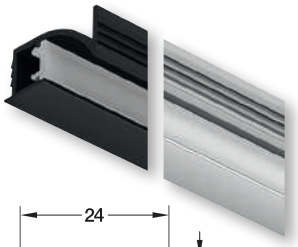
LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

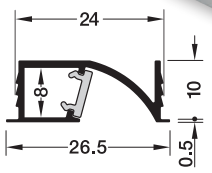
Profiles for recess mounting

Aluminium

Häfele Loox5 profile 1107 / 1106, asymmetric light distribution

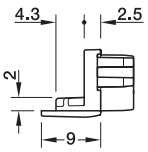
Häfele Loox5 profile 1107

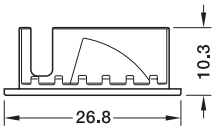




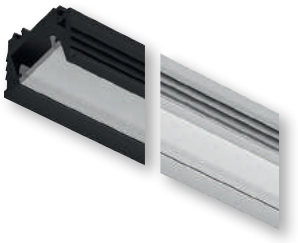
[routing dimensions]

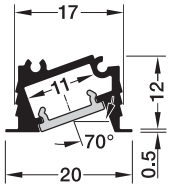
End caps



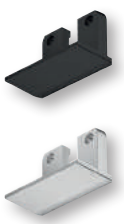


Häfele Loox5 profile 1106

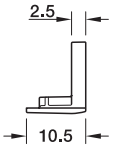




[routing dimensions]



End caps



> Material:	Profile: aluminium, diffuser: polycarbonate
> Finish/colour:	Profile: anodized, diffuser: opal white, light permeability 70-80 %
> Length:	3000 mm
> Diffuser width:	Profile 1107: 8 mm, profile 1106: 11 mm
> Supplied with:	1 aluminium profile 1 diffuser opal white

Colour	Profile 1107	Profile 1106
Black	**833.95.731**	**833.95.729**
Silver coloured	**833.95.730**	**833.95.728**

Profile 1106 and 1107 suitable for use with LED strip lights up to a width of max. 5 mm.
Glare-free light, ideal for vertical installation in wardrobes.

End caps for Häfele Loox5 profile 1107 and 1106

> Material:	Plastic
> Version:	With cable outlet
> Mounting:	For screw fixing
> Supplied with:	10 piece

Colour	Profile 1107	Profile 1106
Black	**833.95.820**	**833.95.773**
Silver coloured	**833.95.821**	**833.95.772**

Diffusers
The diffuser creates a uniform light.
If required, please order alternative diffusers in black or transparent separately.

Diffusers see page 79

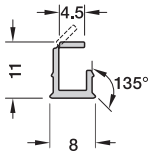
LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Profiles for recess mounting

Polycarbonate

Häfele Loox5 profile 1102/1101

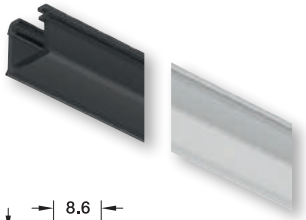
Häfele Loox5 profile 1102

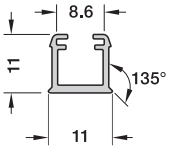


[routing dimensions]

- > Material: Polycarbonate
- > Length: 3000 mm
- > Supplied with: 1 plastic profile

Häfele Loox5 profile 1101





[routing dimensions]

Colour	Light permeability	Profile 1102	Profile 1101
Black	~20 %	**833.95.741**	**833.72.899**
Opal white	70-80 %	**833.95.740**	**833.72.898**

Note

Profiles 1102 and 1101 are suitable for use with LED strip lights up to max. 9.6 W/m.
Profile 1102 is suitable for use with LED strip lights max. 5 mm wide.
Profile 1101 is suitable only for LED strip lights with a width of precisely 8 mm.

The diffuser creates a uniform light.
The LED points in the white version are invisible from120 LEDs/m.

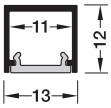
LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Profiles for surface mounting

Aluminium

Häfele Loox5 profile 2102

Häfele Loox5 profile 2102



Flush recess mounted diffuser

> Material:	Profile: aluminium, diffuser: polycarbonate
> Finish/colour:	Profile: anodized, diffuser: opal white, light permeability 70–80 %
> Length:	3000 mm
> Diffuser width:	Profile 2101: 13 mm Profile 2102: 11 mm
> Supplied with:	1 aluminium profile 1 diffuser opal white

Colour	Profile 2102
Black	**833.95.735**
Brushed stainless steel coloured	**833.95.763**

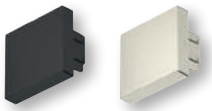
Diffusers
The diffuser creates a uniform light.
The LED points are invisible from 120 LEDs/m.
If required, please order alternative diffusers in black or transparent (only for width 11 mm) separately.

Diffusers see page 79

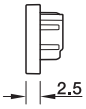
LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Hafele Loox5 profile end caps 2102

Hafele Loox5 profile end caps 2102



End caps

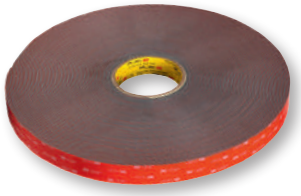


End caps for Häfele Loox5 profile 2101 / 2102

> Material: Plastic
> Version: With drill mark for cable outlet
> Supplied with: 5 Pair of end caps

Colour	End cap 2102
Black	**833.95.778**
Brushed stainless steel coloured	**833.95.779**

Adhesive tape for Häfele Loox5 profile 2102



> Area of application: For fixing aluminium on wood, metals, or plastics
> Version: Double-sided, high instant adhesion, high temperature resistance
> Length: 33 m
> Width: 10 mm
> Thickness: 0.6 mm

	Cat. No.
Adhesive tape	**833.89.266**

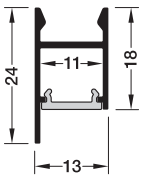
LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Profiles for surface mounting

Aluminium

Häfele Loox5 profile 2104, with concealed fixing

Häfele Loox5 profile 2104, with asymmetric light distribution



> Material:	Profile: aluminium, diffuser: polycarbonate
> Finish/colour:	Profile: anodized, diffuser: opal white, light permeability 70-80 %
> Length:	3000 mm
> Diffuser width:	11 mm
> Supplied with:	1 aluminium profile 1 diffuser opal white

Colour	Profile 2104
Black	**833.95.739**
Brushed stainless steel coloured	**833.95.765**

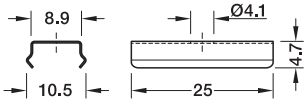
Order reference
Please order (mandatory) mounting bracket separately.

Diffusers
The diffuser creates a uniform light.
The LED points are invisible from 120 LEDs/m.
If required, please order alternative diffusers in black or transparent separately.

Diffusers see page 79

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Häfele Loox5 profile 2104, with concealed fixing



Mounting bracket
for concealed fixing

Mounting bracket

> Material: Stainless steel
> Mounting: For screw fixing
> Supplied with: 5 pair of mounting brackets

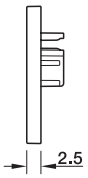
	Cat. No.
Mounting bracket	**833.95.761**

End caps for Häfele Loox5 profile 2104

> Material: Plastic
> Version: With drill mark for cable outlet
> Supplied with: 5 pair of end caps

Colour	End cap 2104
Black	**833.95.784**
Brushed stainless steel coloured	**833.95.785**

Häfele Loox5 profile 2104



End caps

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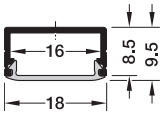
Profiles for surface mounting

Aluminium

Häfele Loox profile for surface mounting



End cap

Retaining clip

> Material: Aluminium
> Finish/colour: Silver coloured anodized
> Length x width: 2500 x 18 mm
> Height: 9.5 mm
> Supplied with: 1 profile, 1 diffuser

Colour	Cat. No.
Silver coloured with milky diffuser	**833.72.840**

Note
LED points are always visible when this profile is used.
Permanent operation (≥8 hours/day) only with LED strip lights up to 9.6 W/m.

End cap for 833.72.840

> Material: Plastic, silver coloured
> Supplied with: 2 pieces

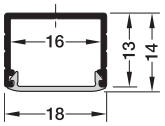
Colour	Cat. No.
Silver coloured	**833.72.852**

Retaining clip for 833.72.840

> Material: Stainless steel, silver coloured
> Supplied with: 2 pieces

Version	Cat. No.
Retaining clip	**833.74.832**

Diffusers see page 87



End cap

Retaining clip

> Material: Aluminium
> Finish/colour: Silver coloured anodized
> Length x width: 2500 x 18 mm
> Height: 14 mm
> Supplied with: 1 profile, 1 diffuser

Colour	Cat. No.
Silver coloured with milky diffuser	**833.72.841**

End cap for 833.72.841

> Material: Plastic
> Supplied with: 2 pieces

Colour	Cat. No.
Silver coloured	**833.72.853**

Retaining clip for 833.72.841

> Material: Stainless steel, silver coloured
> Supplied with: 2 pieces

Version	Cat. No.
Retaining clip	**833.74.832**

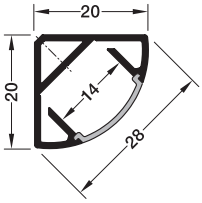
Diffusers see page 79

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Profiles for surface mounting

Aluminium

Häfele Loox corner profile



End Cap

Holder

Mounting plate

> Material: Aluminium
> Finish/colour: Profile: Silver coloured anodized
Diffuser: Milky
> Length x width: 2500 x 28 mm
> Height: 20 mm
> Supplied with: 1 aluminium profile
1 diffuser milky

Colour	Cat. No.
Silver coloured	**833.74.812**

End cap and holder/ mounting plate

> Material: End cap and holder: Plastic, silver coloured
Mounting plate: Stainless steel
> Supplied with: 2 pieces

	Cat. No.
End cap	**833.74.822**
Holder	**833.74.825**
Mounting plate	**833.74.826**

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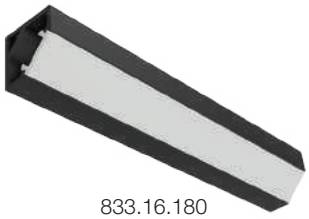
Profiles for surface mounting

Aluminium

Häfele Loox corner profile 7106

833.16.181
Silver

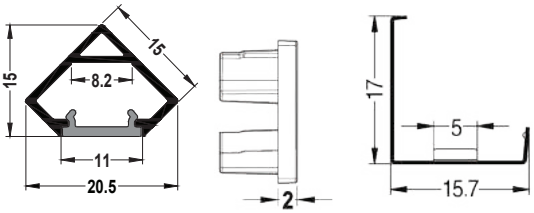


833.16.180
Black

833.01.930
End Cap - Silver

833.01.931
End Cap - Black

833.01.932
Mounting Bracket



Features

> Sleek Design
> Unique Corner Mounting Application: Easily mounted using mounting bracket

>	Material:	Profile: Aluminium, Diffuser: Plastic
>	Finish/ Colour:	Profile: Silver and Black Diffuser: White Opal
>	Length × Width:	2500 mm × 20.5 mm
>	Height:	15 mm
>	Application:	In Cove/ Niche Applications, Under Overhead Kitchen Cabinets and Inside Wardrobes/ Cabinets
>	Mounting:	Surface Mounted
>	Diffuser Details:	Flat Diffuser with No Protrusion Easy to Clean Transmittance 70-80%
>	Supplied With:	1 Aluminium Profile 1 Diffuser

Description	Finish	Cat. No.
7106 Corner Profile	Silver	**833.16.181**
7106 Corner Profile	Black	**833.16.180**

End Cap

> Material: Plastic
> Finish/ Colour: Silver and Black
> Supplied with: 2 pieces

Mounting Bracket

> Material: Stainless Steel
> Finish/ Colour: Stainless Steel
> Supplied With: 2 pieces

Description	Finish	Cat. No.
End Cap for Corner Profile	Silver	**833.01.930**
End Cap for Corner Profile	Black	**833.01.931**
Mounting Bracket for Corner Profile	Stainless Steel	**833.01.932**

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Profiles for surface mounting

Aluminium

Häfele Loox surface angular profile 7107

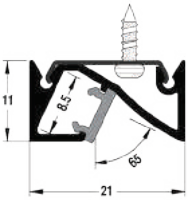
833.16.173
Silver

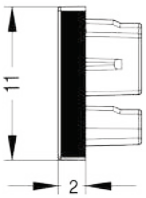
833.01.933
End Cap - Silver

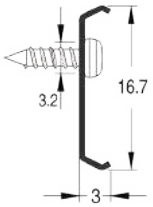
833.01.934
End Cap - Black

833.16.172
Black

833.01.935
Mounting Bracket







> Asymmetric Light Throw
> Glare-free Light Effect, Ideal for Vertical Installation in Wardrobes

> Material: Profile: Aluminium, Diffuser: Plastic
> Finish/ Colour: Profile: Silver and Black
Diffuser: White Opal
> Length × Width: 2500 mm × 21 mm
> Height: 11 mm
> Application: Under Overhead Cabinets in Kitchens, Wardrobe Shelves and Wardrobe Side Panels
> Mounting: Surface Mounted
> Diffuser Details: Flat Diffuser with No Protrusion
Easy to Clean
Transmittance 70-80%
> Supplied With: 1 Aluminium Profile
1 Diffuser

Description	Finish	Cat. No.
7107 Surface Angular Profile	Silver	**833.16.173**
7107 Surface Angular Profile	Black	**833.16.172**

End Cap

> Material: Plastic
> Finish/ Colour: Silver and Black
> Supplied with: 2 pieces

Mounting Bracket

> Material: Stainless Steel
> Finish/ Colour: Stainless Steel
> Supplied with: 2 pieces

Description	Finish	Cat. No.
End Cap for Surface Angular Profile	Silver	**833.01.933**
End Cap for Surface Angular Profile	Black	**833.01.934**
Mounting Bracket for Surface Angular Profile	Stainless Steel	**833.01.935**

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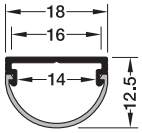
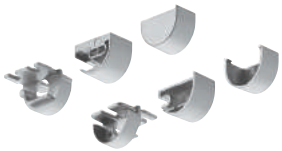
Profiles for surface mounting

Aluminium

Häfele Loox drawer profile





End caps

Retaining clip

> Material: Aluminium
> Finish/colour: Profile: Silver coloured anodized
Diffuser: Milky
> Length x width: 2500 x 18 mm
> Height: 12.5 mm
> Supplied with: 1 aluminium profile
1 diffuser milky

Colour	Cat. No.
Silver coloured	**833.74.835**

End cap set

> Material: ABS plastic, silver coloured
> Supplied with: 5 sets of end caps, fixing screws

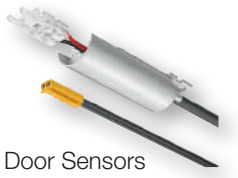
	Cat. No.
End cap set	**833.74.877**

Retaining clip

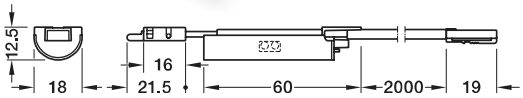
> Material: Stainless steel, silver coloured
> Supplied with: 2 pieces

	Cat. No.
Retaining clip	**833.74.893**

Häfele Loox drawer profile: Door sensors



Door Sensors

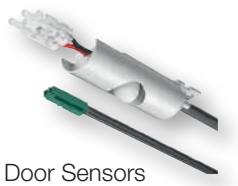


Door Sensors

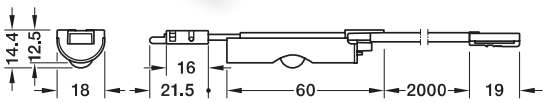
> Suitable for: Häfele Loox drawer profile
> Clip connector type: Loox5 LED strip light 8 mm monochrome
> Material: Plastic
> Installation: For plug fitting, For screw fitting

	Switching capacity W	Cat. No.
5 12 V	60	**833.89.251**

Packing: 1, 10 or 50 Pieces



Door Sensors



> Suitable for: Häfele Loox drawer profile
> Clip connector type: Loox5 LED strip light 8 mm monochrome
> Material: Plastic
> Sensor range: 0-3000mm
> Delay time: 30-30s
> Installation: For plug fitting, For screw fitting

	Switching capacity W	Cat. No.
5 24 V	90	**833.89.254**

Packing: 1, 10 or 50 Pieces

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Profiles

Aluminium

Häfele Loox circular wardrobe rail, 7105

833.16.171
Silver

833.16.170
Black

The Circular Wardrobe Rail possesses a 2-in-1 functionality acting as a wardrobe rail and lighting source and comes with a built-in anti-skid feature that prevents noisy sliding and slipping of hangers.

> Slim circular design
> Anti-skid feature provides better grip for hangers and makes silent operation possible
> Angular throw for glare free light effect

> Material: Profile: Aluminium, Diffuser: Plastic
> Finish/ Colour: Profile: Silver and Black
Diffuser: White Opal
> Length × Diameter: 2500 mm × 25 mm
> Application: Wardrobe
> Mounting: Surface Mounted
> Diffuser Details: Flat Diffuser with No Protrusion
Easy to Clean
Transmittance 70-80%
> Supplied With: 1 Aluminium Profile
1 Diffuser

Description	Finish	Cat. No.
7105 Circular Wardrobe Rail	Silver	**833.16.171**
7105 Circular Wardrobe Rail	Black	**833.16.170**

833.01.938
Centre Support
Silver

833.01.939
Centre Support
Black

833.01.940
End Cap and
Cover - Silver

833.01.941
End Cap and
Cover - Black

Centre Support

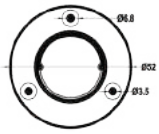
> Material: Plastic
> Finish/ Colour: Silver and Black
> Supplied With: 1 piece

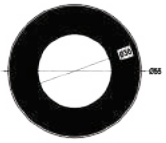
End Cap and Cover

> Material: Plastic
> Finish/ Colour: Silver and Black
> Supplied With: 1 piece

Description	Finish	Cat. No.
Centre Support for Circular Wardrobe Rail	Silver	**833.01.938**
	Black	**833.01.939**
End Cap for Circular Wardrobe Rail with End Cap Cover	Silver	**833.01.940**
	Black	**833.01.941**

* To install Circular Wardrobe Rail, you need to order 2 pieces of End Cap with Cover, i.e. article no. 833.01.940/ 833.01.941



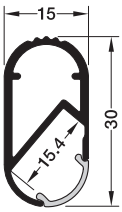


LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Profiles

Aluminium

Häfele Loox wardrobe rail, asymmetric light distribution



Rail end support, side panel

Wardrobe rail, rail centre support

> Material: Aluminium
> Finish/colour: Profile: Silver coloured anodized
Diffuser: Milky
> Length x width: 2500 x 15 mm
> Height: 30 mm
> Supplied with: 1 aluminium profile
1 diffuser milky

Colour	Cat. No.
Silver coloured	**833.72.790**

LED points are always visible when this profile is used.

Rail end support, side panel

> Material: Zinc alloy
> Mounting: For screw fixing to side panel
> Supplied with: 1 piece

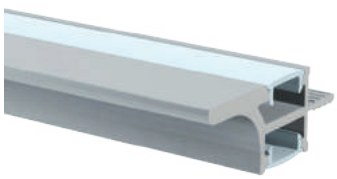
	Cat. No.
Rail end support, side panel	**803.33.757**

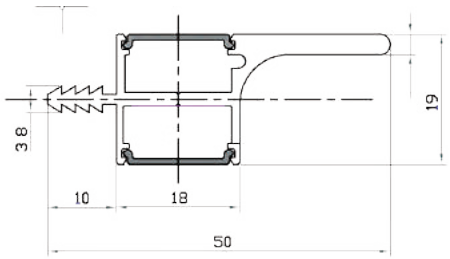
Rail centre support, wardrobe rail

> Material: Zinc alloy, chrome plated
> Mounting: For screw fixing
> Supplied with: 1 piece

	Cat. No.
Rail centre support, wardrobe rail	**802.07.200**

Häfele two way aluminium profile





> Material: Aluminium
> Finish/colour: Profile: Silver coloured anodized
Diffuser: Milky
> Length x width: 2500 x 50 mm
> Height: 19 mm

Colour	Cat. No.
Silver coloured	**833.01.720**

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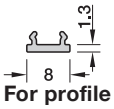
Diffusers, cooling strip

Häfele Loox5 diffusers for profiles for recess mounting 1103 / 1104 / 1106 / 1107 as well as for profiles for surface mounting 2102 & 2104

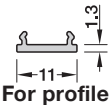
> Material: Plastic
> Length: 3000 mm
> Supplied with: 1 diffuser

Width mm	For profiles	Transmittance white opal, 70–80 %	
		Length mm	
		2500 mm	3000mm
8	1104, 1107	**833.95.804**	**833.95.754**
11	1103.1105,1106, 2102, 2103, 2104	**833.95.805**	**833.95.755**

Dimensions



For profile 1104, 1107



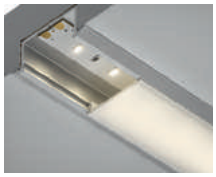
For profile 1103, 1105,1106, 2102, 2103, 2104

The white diffuser creates a uniform light.

Replacement diffuser for Loox profiles with 16 mm internal dimension

Frosted

Milky



Diffuser version: Protruding, for push fitting

> Material: Plastic
> Length: 2500 mm
> Supplied with: 1 diffuser

Diffuser	Frosted	Milky
Protruding, for push fitting	**833.74.780**	**833.74.781**

Diffuser version: Flush, for sliding in

> Material: Plastic
> Length: 2500 mm
> Supplied with: 1 diffuser

Diffuser	Frosted	Milky
Protruding, flush for sliding in	**833.72.858**	**833.72.859**

> Simple replacement of existing diffusers in order to switch from frosted to milky
> Cannot be used for the following aluminium profiles: 833.74.812, 833.74.813 or for aluminium profiles with curved diffusers
> Can be used only with Loox aluminium profiles

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Recess/surface mounted downlights

Monochrome, drill hole Ø: 55 mm

Häfele Loox5 LED 2047

3000 K	4000 K	5000 K	120°	
560 lx	570 lx	670 lx		250 mm
210 lx	215 lx	245 lx		500 mm
115 lx	115 lx	135 lx		750 mm
75 lx	75 lx	90 lx		1000 mm

LED 2047

> Dimmable:	Yes
> Material:	Steel
> Life time L80/B10:	30,000 h
> Energy efficiency class:	G
> Degree of protection:	IP20
> Mounting:	For mounting in drilled hole, for clamp fixing or for screw fixing
> Drill hole Ø:	55 mm
> Supplied with:	1 light with 2 m lead

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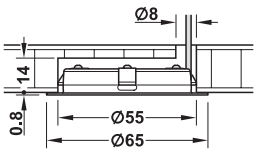
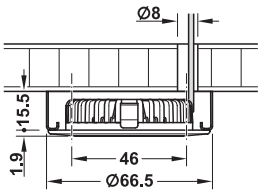
10 YEARS GUARANTEE* IP20

Häfele Loox5 LED 2047

Voltage V	Number of LEDs	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Stainless steel coloured	Silver coloured	Polished chrome plated
Häfele Loox5 LED 2047									
5 12 V	24	3000	3	210	70	90	**833.72.390**	**833.72.340**	**833.72.300**
		4000	3	216	72	90	**833.72.391**	**833.72.341**	**833.72.301**
		5000	3	240	80	83	**833.72.392**	**833.72.342**	**833.72.302**



Recess mounting



Surface mounting

> Surface mounted housing, steel

Colour	Cat. No.
Stainless steel coloured	**833.72.804**
Silver coloured	**833.72.803**
Polished chrome plated	**833.72.802**

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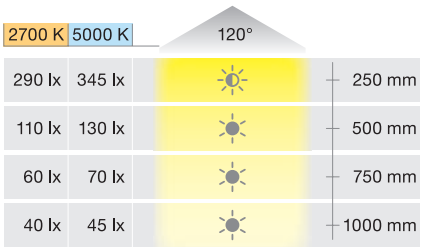
Recess/surface mounted downlights

multi-white, drill hole Ø: 55 mm

Häfele Loox5 LED 2048

> Material:	Steel
> Energy efficiency class:	G
> Degree of protection:	IP45
> Mounting:	For mounting in drilled hole, for clamp fixing or for screw fixing
> Drill hole Ø:	55 mm
> Supplied with:	1 light with 2 m multi-white lead



LED 2048

5 12 V Loox5 12 V driver see page 129

5 24 V Loox5 24 V driver see page 131

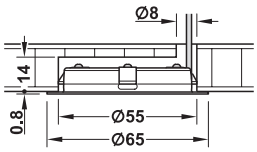
Ordering instruction
Accessories are required for controlling multi-white lights.
Please order separately, see chapter Networking, page 102.

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

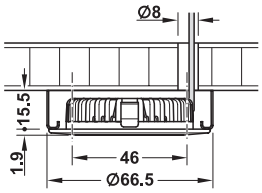
10 YEARS GUARANTEE* IP20

Häfele Loox5 LED 2048

Voltage V	Number of LEDs	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Silver coloured	Polished chrome plated
5 12 V	**Häfele Loox5 LED 2048**							
	60	2700	3	255	85	90	**833.72.311**	**833.72.310**
		5000	3	255	85	83		



Recess mounting



Surface mounting

> Surface mounted housing

Colour	Cat. No.
Silver coloured	**833.72.803**
Polished chrome plated	**833.72.802**

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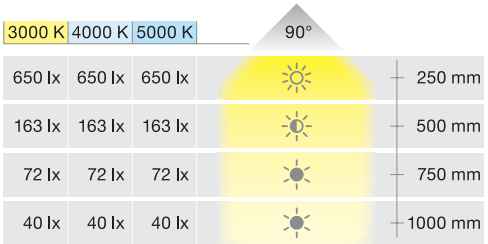
Recess/surface mounted downlights

Monochrome, drill hole Ø: 26 mm

Häfele Loox5 LED 2022

- > Dimmable: Yes
- > Material: Aluminium
- > Energy efficiency class: G
- > Degree of protection: IP44 as recess mounted downlight; IP20 with downlight housing (surface mounted downlight)
- > Number of LEDs: 3
- > Mounting: For mounting in drilled hole, for clamp fixing or for screw fixing
- > Drill hole Ø: 26 mm
- > Supplied with: 1 light with 2 m lead



The IP44 degree of protection is reduced to IP20 when surface mounted or recess mounting with through hole.

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Colour rendering index CRI R_a	Silver coloured anodized
5 12 V	3000	1.5	105	70	82	**833.72.040**
	4000	1.5	105	70	87	**833.72.041**
	5000	1.5	105	70	88	**833.72.042**

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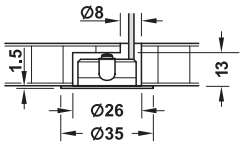
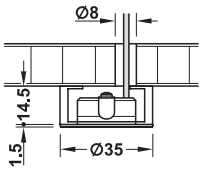
10 YEARS GUARANTEE* IP20 IP44

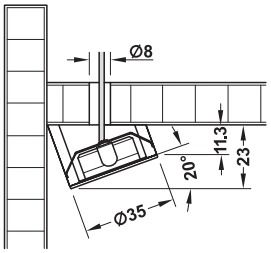
Häfele Loox5 LED 2022



Recess mounting



Surface mounting



> Downlight housing, round

Colour	Cat. No.
Silver coloured anodized	**833.72.831**

> Downlight housing, wedge-shaped

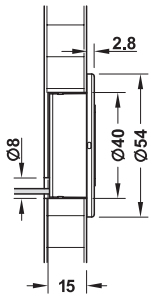
Colour	Cat. No.
Silver coloured anodized	**833.72.832**

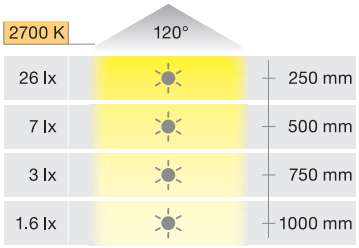
LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Recess mounted downlights

Monochrome, sensor-controlled, drill hole Ø: 40 mm

Häfele Loox5 LED 2028 with motion detector





> Not dimmable
> Material: Stainless steel, plastic
> Version: With motion detector active from a decreasing ambient light of 15 lx
> Degree of protection: IP44
> Delay time: Approx. 2 min.
> Sensor range: 0–3000 mm
> Number of LEDs: 3
> Mounting: For mounting in drilled hole
> Drill hole Ø: 40 mm
> Supplied with: 1 light with 2 m lead, including fixing materials

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Colour rendering index CRI R_a	Black
5 12 V	2700	0.3	4	13	90	**833.73.111**

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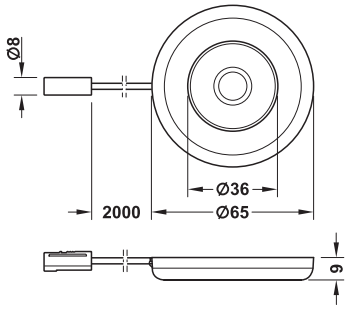
10 YEARS GUARANTEE* IP44

Surface mounted downlights

Monochrome, Ø 65 mm

Häfele Loox5 LED 2027



- > Dimmable: Yes
- > Material: Aluminium, silver coloured, plastic
- > Diameter: 65 mm
- > Height: 9 mm
- > Energy efficiency class: G
- > Degree of protection: IP20
- > Number of LEDs: 27
- > Mounting: For screw fixing
- > Supplied with: 1 light with 2 m lead, including fixing materials

3000 K	4000 K	5000 K	117°	
867 lx	884 lx	918 lx		250 mm
216 lx	221 lx	229 lx		500 mm
96 lx	98 lx	102 lx		750 mm
54 lx	55 lx	57 lx		1000 mm

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Colour rendering index CRI R_a	Cat. No.
5 12 V	3000	2.6	190	73	85	**833.72.050**
	4000	2.6	208	80	85	**833.72.051**
	5000	2.6	218	84	85	**833.72.052**

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10 YEARS GUARANTEE* IP20

It's all about the perfect presentation of goods in stores. Illumination plays an important role here. Well-placed lighting highlights architectural elements, product qualities, and creates virtual spaces, which also has an impact on sales promotion. The concept must work in both natural and artificial light, from the shop window to the farthest corner in the back. The challenge of the lighting concept is to make the store appear as a unit.

The use of lighting fixtures in stores

> emphasises the objects
> divides rooms into zones and highlights elements within the room
> adds to the overall store ambience

More on the subject of shopfitting can be found in our current brochure "Thinking ahead in the store"

Only the right light sells well.

The emphasis on products in a retail setting is largely determined by the lighting. Our lighting experts will get in touch with you when it comes to designing lighting fixtures for your store.

The higher the quality of the LEDs, the more natural the colour rendering.

These factors determine the quality of lighting fixtures in stores

Functionality: What effect does light have on the presentation of goods?
Focus on: what refraction angle do the lights have?
Sustainability: What is the life time of the lights when they are used in permanent operation?
Design: How do the lights integrate into the overall design?
Quality: Which colour rendering (CRI factor) is provided by the lights that are used?

Häfele and Nimbus have made it their own philosophy to develop high-quality and integrated lighting solutions. It is very important to us that your lighting installations provide perfect, harmonious and homely room lighting and be in harmony with the surrounding furnishings and architecture.

Our goal is to collaborate with you in creating situations in which people feel comfortable.

Light should therefore become a pleasant companion which can be easily adapted to a wide range of requirements.

Turn light into an experience.

What turns light into an experience?

> The lighting solution is an interaction of furniture and room lighting.
> Every light divides rooms into zones, and emphasises elements in the room.
> The light that is used is glare-free.
> The brightness (dimmable) and light colour (from warm white to cool white) of all lights can be individually adjusted.
> Your lighting is adapted to different usage situations at the customer's premises.
> The entire installation is structured into useful groups and scenes.
> The entire control is individualised for the customer.

Switching

Sensor switch

New Sensor switch	> Page 93
New Motion detector	> Page 93
Captive switch/ dimmer	> Page 94
Dimmer for surface mounting	> Page 94

Sensor switch for aluminium profiles

Dimmer, modular	> Page 94
Motion detector, modular	> Page 95

Mechanical switches

Universal door contact switch	> Page 97
Door contact switch	> Page 97
Rocker switch	> Page 98
Housing for switch, for surface mounting	> Page 98
Housing for Häfele Loox switch	> Page 98

Multi switch box, multi driver box

Multi switch box	> Page 98
Multi driver box	> Page 100

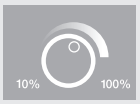
Symbol overview

Sensor switch
Touchless, soft on/off switching

Door sensor switch
Soft on/off switching

Motion detector
Automatic on/off switching

Dimmer
Soft on/off switching and dimming



Captive switch/dimmer
Touchless on/off switching and dimming

Universal door contact switch
On/off switching

Door contact switch
On/off switching,
door closed = light off,
door open = light on

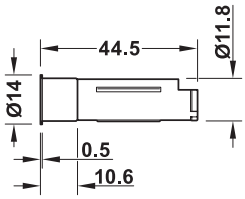
Rocker switch
On/off switching

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

New Sensor switch

Adjustable Häfele Loox sensor switch, modular

On/off gentle switching function, touchless or door open = light on, door closed = light off



> Function as dimmer sensor switch or door sensor switch can be changed via integrated microswitch
> Colour adjustment with supplied cover sleeves

> Version:	Can be set up as a dimmer sensor switch or door sensor switch
> Switching function:	On/off gentle switchingfunction, touchless door open = light on, door closed = light off
> Memory function:	Yes
> Material:	Plastic
> Dim. (Ø x L):	11.8 x 44 mm
> Power consumption:	≤0.3 W
> Sensor range:	0 – 75 mm
> Degree of protection:	IP20
> Drill hole Ø:	12 mm
> Mounting:	For drilling in or for inserting into housing

Installation reference
Coloured cover sleeve can be used for drill hole in furniture and for housing

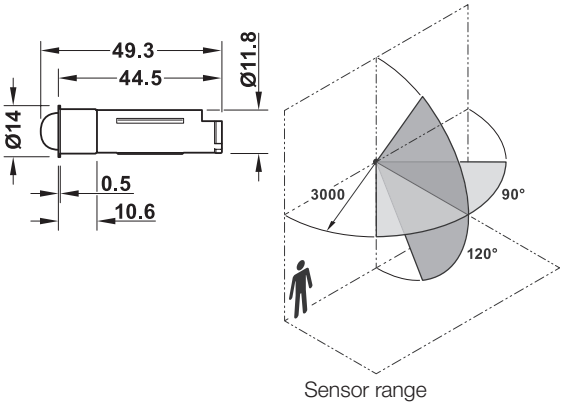
Supplied with
1 Adjustable sensor switch
3 Cover sleeves (white, grey, black)

	Cat. No.
Adjustable sensor switch	**833.89.334**

Order reference
Please order lead with snap-in connector for modular switches separately. Length 2 m: Cat. No. 833.89.142
See page 97

Adjustable Häfele Loox motion detector, modular

Gentle on/off switching function, automatic



Sensor range

> Adjustable overrun time via integrated microswitch
> Colour adjustment with supplied cover sleeves

> Version:	Adjustable overrun time
> Switching function:	Automatic on/of
> Memory function:	No
> Material:	Plastic
> Dim. (Ø x L):	11.8 x 44 mm
> Power consumption:	≤0.1 W
> Sensor range:	0 – 3000 mm
> Horizontal sensor angle:	90°
> Vertical sensor bracket:	120°
> Degree of protection:	IP20
> Drill hole Ø:	12 mm
> Mounting:	For drilling in or for inserting into housing

Installation reference
Coloured cover sleeve can be used for drill hole in furniture and for housing. Sensor lens protrudes approx. 5 mm.

Supplied with
1 Adjustable motion detector
3 Cover sleeves (white, grey, black)

Min overrun time	Cat. No.
0.5/1/3	**833.89.333**

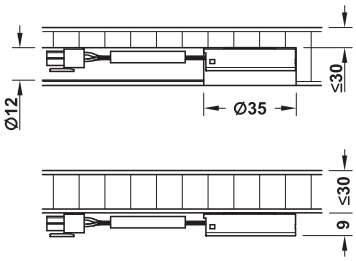
Order reference
Please order lead with snap-in connector for modular switches separately. Length 2 m: Cat. No. 833.89.142
See page 97

LOOX.2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Sensor switch

Häfele Loox capacitive switch/dimmer, modular – touchless on/off switching and dimming

This completely invisible operating solution opens up completely new possibilities in continuously adjustable light control.



> Manual operation (proximity sensor), memory function
> Concealed installation in wood, glass or stone (not in metalliferous materials) at a maximum depth of 30 mm
> For screw fixing or recess mounting (drill hole Ø 35 mm)
> A distance of min. 500 mm to electromagnetic fields (power lines, microwave) must be adhered to.

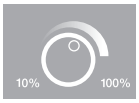
> Material/colour:	Plastic, silver coloured
> Diameter:	35 mm
> Height:	10 mm
> Degree of protection:	IP20
> Power consumption:	≤1 W
> Supplied with:	1 switch

	Cat. No.
Capacitive switch/dimmer, modular	**833.89.133**

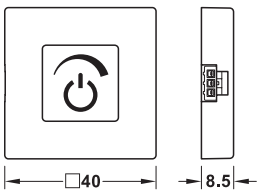
Please order lead with snap-in connector for modular switches separately. Length 2 m: Cat. No. 833.89.142.
See page 97

Häfele Loox dimmer for surface mounting, modular – soft on/off switching and dimming

WITH CONTACT/ TOUCHLESS



With touch function



> Material:	Plastic
> Dim. (L x W x H):	40 x 40 x 8.5 mm
> Degree of protection:	IP20
> Sensor range:	0–100 mm
> Power consumption:	≤0.3 W
> Supplied with:	1 switch with fixing material

	Sensor range	Silver co-loured	Black	White
With touch	–	**833.89.134**	**833.89.176**	**833.89.177**

Please order lead with snap-in connector for modular switches separately. Length 2 m: Cat. No. 833.89.142.
See page 97

Dimming value is stored without the need for voltage supply (memory function)

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Sensor switch

For monochrome 8 mm LED strip lights in aluminium profiles

Häfele Loox5 motion detector, modular

Fig. shows switch in use
(please order profile and lead separately)

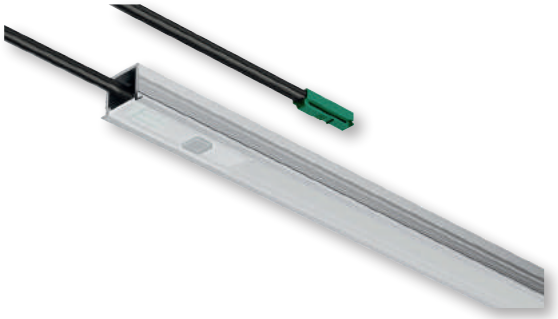
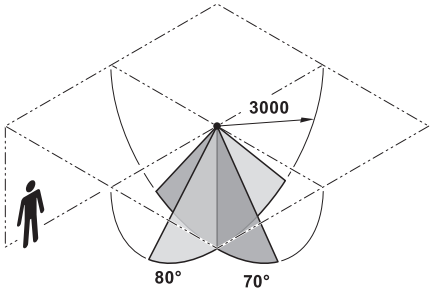


Fig. shows switch in use
(please order profile and lead separately)



Sensor range

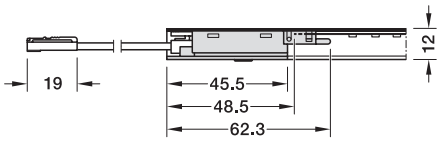
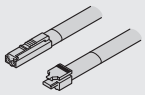


Fig. shows switch in use
(please order profile and lead separately)

> Area of application: For monochrome 8 mm Loox5 LED strip lights in Loox5 aluminium profiles
> Usable for: Profile 1103, Profile 1105, Profile 2102, Profile 2104, Profile 7105
> Switching function: Gentle on/off, automatic
> Material: Plastic
> Colour/finish: Opal
> Sensor range: 3000 mm
> Horizontal sensor angle: 80°
> Vertical sensor bracket: 70°
> Mounting: For sliding into aluminium profile
> Installation reference: Shorten LED strip light by approx. 50 mm in relation to the total length of the aluminium profile. Shorten diffuser by 45.5 mm.
> Supplied with: 1 motion detector

	Wattage capacity W	Delay time s	Cat. No.
5 12 V	60	60	**833.89.282**
		180	**833.89.283**
		300	**833.89.284**
5 24 V	120	60	**833.89.292**
		180	**833.89.293**
		300	**833.89.294**



> Lead, modular 5A/18AWG

Voltage	Length mm	Cat. No.
5 12 V	2000	**833.95.830**
5 24 V	2000	**833.95.835**

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Sensor switch

For monochrome 8 mm LED strip lights in aluminium profiles

Häfele Loox5 sensor switch, modular

Fig. shows switch in use
(please order profile and lead separately)

Fig. shows switch in use
(please order profile and lead separately)

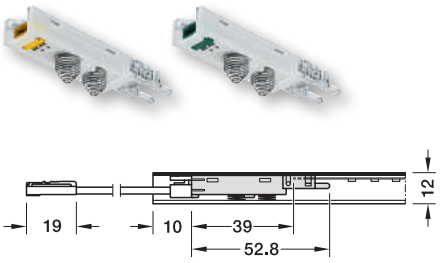


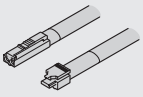
Fig. shows switch in use
(please order profile and lead separately)

> Concealed installation beneath the diffuser

> Area of application:	For monochrome 8 mm Loox5 LED strip lights in Loox5 aluminium profiles
> Usable for:	Profile 1103, Profile 1105, Profile 2102, Profile 2104, Profile 7105,
> Switching function:	Gentle on/off, dimming (with memory function)
> Material:	Plastic
> Colour/finish:	Opal
> Mounting:	For sliding into aluminium profile
> Installation reference:	Suitable for other aluminium profiles with a similar internal height to the specified models (approx. 12–14 mm). Shorten LED strip light by approx. 50 mm in relation to the total length of the aluminium profile. No diffuser shortening required, since the diffuser covers the dimmer.
> Supplied with:	1 dimmer

	Wattage capacity W	Cat. No.
5 12 V	60	833.89.281
5 24 V	120	833.89.291

Note
Dimming range 5 % – 100 %
dimming setting is retained after switching off (memory function).
After being in a de-energised condition, the light returns to the status that it was in previously when it was energised.



> Lead, modular 5A/18AWG

Voltage	Length mm	Cat. No.
5 12 V	2000	833.95.830
5 24 V	2000	833.95.835

Häfele Loox door sensor for drawer profile

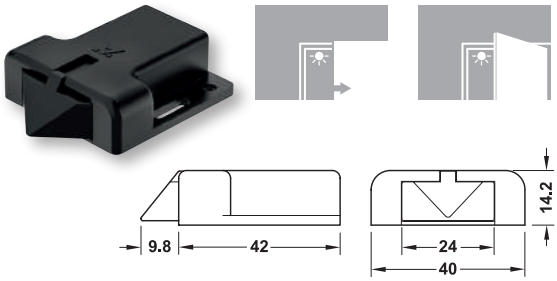
Door sensor

	Cat. No.
Door sensor for Loox drawer profile for 833.74.835	833.89.110

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Mechanical switches

Häfele Loox universal door contact switch, modular – on/off switching



The universal door contact switch is suitable for hinged doors and single-leaf sliding doors.

> Material/colour: Plastic, black
> Degree of protection: IP20
> Supplied with: 1 switch with fixing material

Length x width mm	Height mm	Cat. No.
51.8 x 40	14.2	**833.89.143**

Please order lead with snap-in connector for modular switches separately. Length 2 m: Cat. No. 833.89.142.

Häfele Loox lead with snap-in connector for modular switches

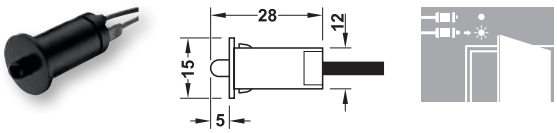
> Degree of protection: IP20
> Supplied with: 1 lead

Material/colour:	Length mm	Cat. No.
Plastic, black	1000	**833.89.141**
	2000	**833.89.142**

Required for modular switches

Drill hole Ø for plug and socket: 12 mm

Häfele Loox door contact switch – on/off switching



> Degree of protection: IP20
> Drill hole Ø: 12 mm
> Supplied with: 1 switch with 2 m lead

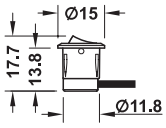
Material/colour	Length mm	Cat. No.
Plastic, black	28	**833.89.059**

Drill hole Ø for plug: 12 mm

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Mechanical switches

Häfele Loox rocker switch – on/off switching

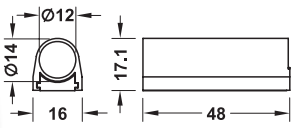


> Material/colour: Plastic, black
> Diameter: 15 mm
> Height: 17.7 mm
> Drill hole Ø: 12 mm
> Supplied with: 1 switch with 2 m lead

	Cat. No.
Rocker switch	**833.89.106**

Drill hole Ø for plug: 12 mm

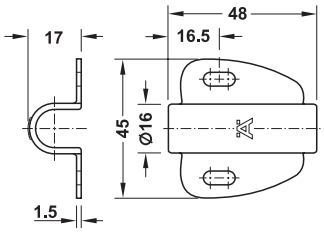
Housing for Häfele Loox switch, for surface mounting



> Material: Plastic
> Supplied with: 1 housing
> Application: For switch Ø 12 mm
> Mounting: For glue fixing

Ø mm	Dim. (L x W x H) mm	Colour	Cat. No.
14	48 x 16 x 17.1	Black	**833.89.163**
		White	**833.89.165**

Housing for switch, surface mounted

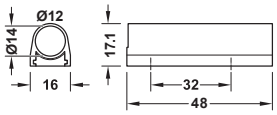


> Dimension: 48 x 45 x 17 mm (L x W x H)
> Diameter: 16 mm
> Material/colour: Plastic, silver coloured
> Supplied with: 1 housing
> Application: For switch Ø 12 mm

	Cat. No.
Housing for switch	**833.89.090**

Suitable for 32 mm series drilled holes

Housing for Häfele Loox switch



> Material: Plastic
> Mounting: For screw fixing
> Dimension: 58 x 15 x 15 mm (L x W x H)

Note
Screw on mounting plate, slide on housing

Colour/finish	Packing pieces	Cat. No.
White	1	**833.89.330**
Silver coloured	1 or 50	**833.89.331**
Black	1	**833.89.332**

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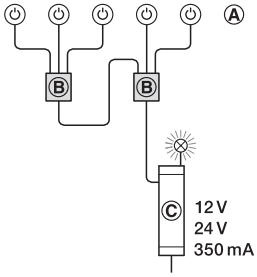
Multi switch box

Häfele Loox multi switch box



Ⓐ Switch
Ⓑ Multi switch box
Ⓒ Driver

1 LED driver operated by up to 3 switches.
Allows the LED driver or distributor with switching function to be switched on and off from different positions.

> Function: 2 operating modes can be selected using an integrated toggle switch.
Cross circuit: On/off switching at different switches
Deactivated cross circuit: Switching on with switch 1, 2, or 3.
To switch off, all previously activated switches must be deactivated again.

> Material/colour:	Plastic, black
> Length x width:	55 x 45 mm
> Height:	16 mm
> Standby power consumption:	≤0.3 W
> Degree of protection:	IP20
> Supplied with:	1 multi switch box with 1 m lead for switch

	Cat. No.
Multi-switch box	**833.89.066**

Lead from multi boxes to switching input

Length mm	Supplied with	Cat. No.
500	1 lead	**833.89.068**
2000	1 lead	**833.89.069**

Cannot be used in combination with dimmer 833.89.043
Drill hole Ø for plug: 12 mm
Alternative to the supplied 1 m lead
For multi switch box.
The drill hole Ø for the male plug and the female socket of the switch leads is 12 mm.

Häfele Loox extension lead for switches

> Length: 2000 mm
> Supplied with: 1 lead

	Cat. No.
Extension lead for switches	**833.89.067**

Drill hole Ø for plug: 12 mm
Can also be used for the multi switch box and the multi driver box.
The maximum lead length of a switch is 6 m.
The drill hole Ø for the male plug and the female socket of the switch leads is 12 mm.

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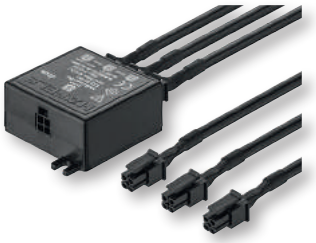
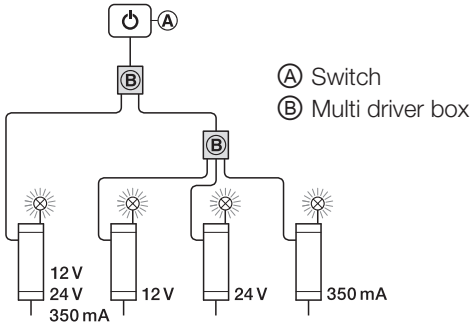
Multi driver box

Häfele Loox multi driver box





> Material/colour:	Plastic, black
> Length x width:	50 x 40 mm
> Height:	19 mm
> Standby power consumption:	1.5 W
> Supplied with:	1 multi driver box with 3 x 1 m lead for switch

	Cat. No.
Multi-driver box	**833.89.061**

Max. 3 x 75 W per multi driver box.

Lead for multi boxes to switching input

Length mm	Supplied with	Cat. No.
500	1 lead	**833.89.068**
2000	1 lead	**833.89.069**

Drill hole Ø for plug: 12 mm
Alternative to the supplied three 1 m leads for multi driver box.
The drill hole Ø for the male plug and the female socket of the switch leads is 12 mm.

Up to 3 LED drivers with different voltages or distributors with a switching function can be controlled with 1 switch.
Several lights in the room can be switched on and off with one switch.
These can also be 3 of the same driver if you require additional power in a 12 V system, for example.

Häfele Loox extension lead for switches

> Length:	2000 mm
> Supplied with:	1 lead

	Cat. No.
Extension lead for switches	**833.89.067**

Drill hole Ø for plug: 12 mm
Can also be used for the multi switch box and the multi driver box.
The maximum lead length of a switch is 6 m.
The drill hole Ø for the male plug and the female socket of the switch leads is 12 mm.

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Flexible networking. Wireless control.

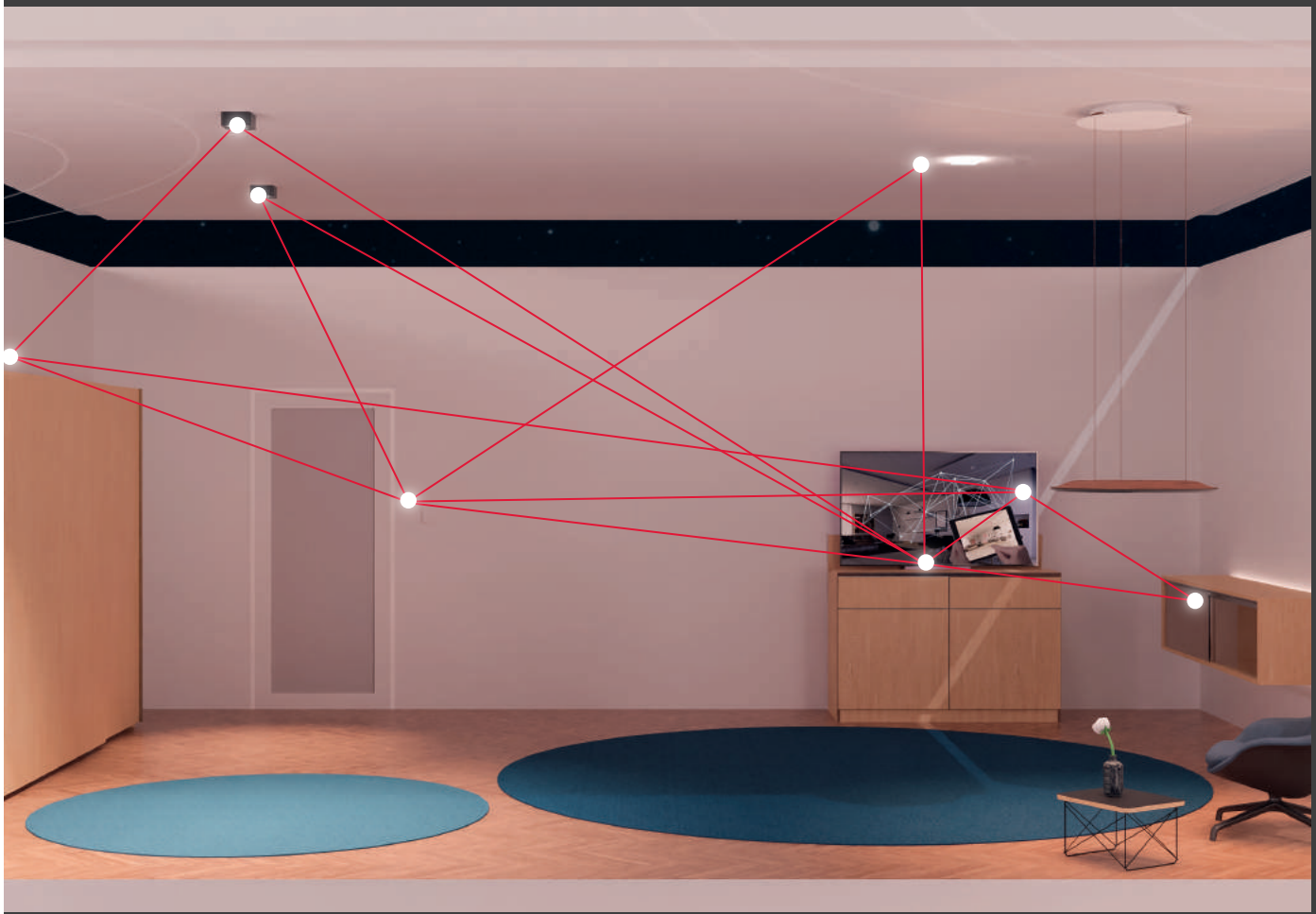
Connect Mesh from Häfele shows its full strength when networking different lights in furniture and in rooms.

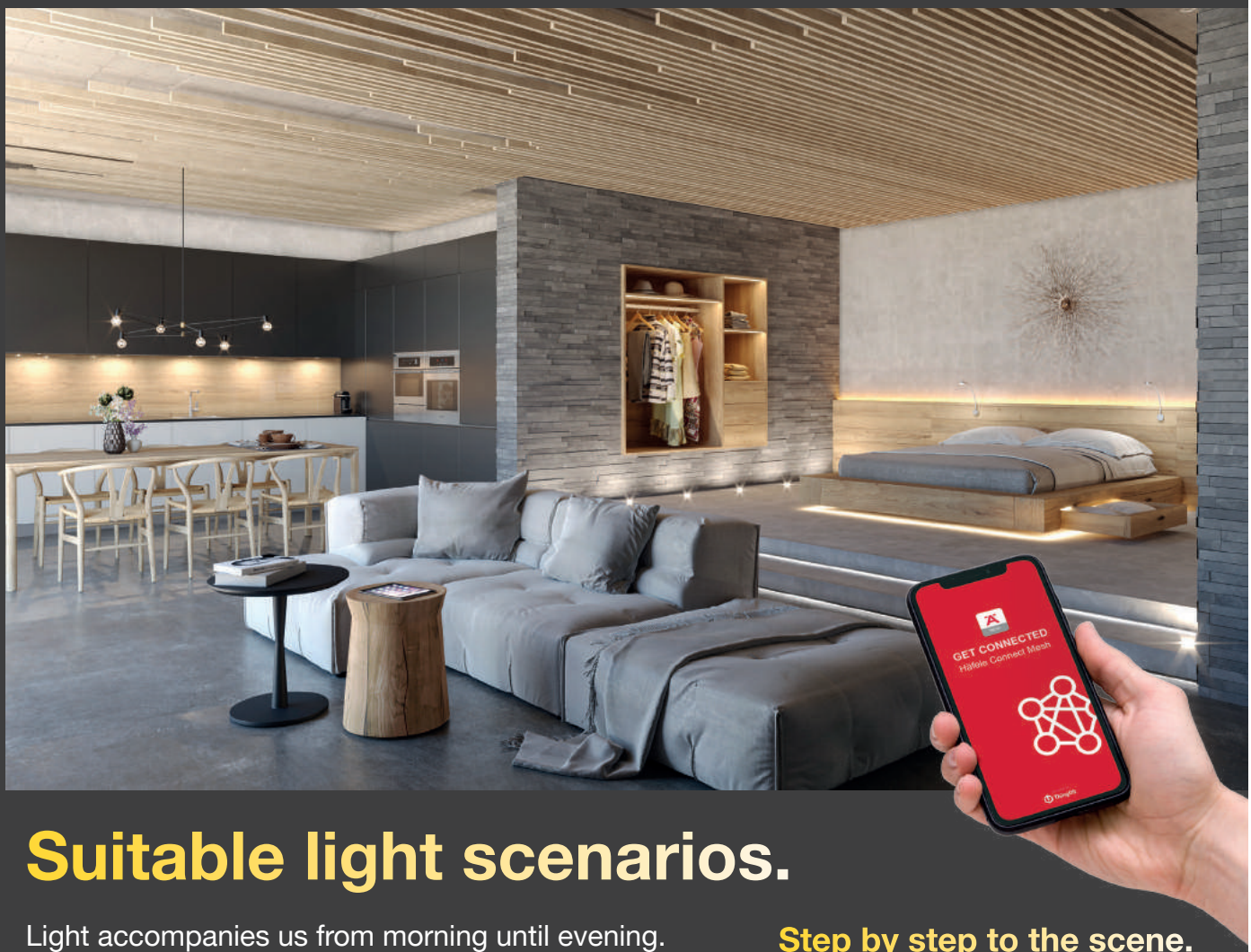
In order to provide a high degree of flexibility for setting up your lighting solutions, the tried-and-tested Mesh technology based on Bluetooth Low Energy is used.

The biggest advantage of this technology is the communication between all components in a network.

The Connect Mesh components.

- Adapters - For connecting multi-white and RGB strip lights to the Connect Mesh distributor
- Connect Mesh Distributors - all lights that are connected to this distributor can be controlled wirelessly.
- Lights with integrated Mesh technology – these components can be integrated into Mesh networks without distributors and controlled wirelessly.
- Connect Mesh control units (remote controls, wall mounted push buttons, interfaces) – for wireless control of all lights in a network.
- Connect Mesh App – for setting up and operating networks.
- Extensions with third-party products are possible using a standardised communication platform.





Suitable light scenarios.

Light accompanies us from morning until evening. This is why it is very important for the lighting solution in your furnishings to accompany your customer's everyday life in a meaningful way, and always provide the correct light scene for daily activity in the rooms.

A Connect Mesh network makes it possible to install and configure room and furniture lighting so that you can create completely individual light scenes for your customers.

With Connect Mesh you have full flexibility, you can incorporate additional Mesh components at any time without tedious cable pulling, and have complete freedom when defining circuit diagrams, even across rooms and levels.

Step by step to the scene.

With the Connect Mesh Box and Connect Mesh Application, you can set a 'scene' i.e. modify the settings (light intensity, colour temperature) of all the lights you want to use in a particular room for a particular time of the day. You can save these settings in the form of scenes in the Connect Mesh Application and set it with a single touch.

> Clarify the everyday routine that takes place on their premises (e,g. dining home office, relaxing, etc.)

> Decide which light illuminates the relevant situations in the best way possible.

> Set up a network.

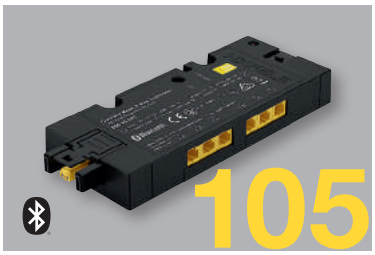
> Set the required light scenarios for all situations based on the routine

> After setting up, you can operate each light scene using a wall mounted push button or remote control, and adapt it later if necessary.

Networking

Häfele Connect Mesh 6-way distributor

6-way distributor > Page 105



Häfele Loox5 adapter

Monochrome adapter > Page 106
Multi-white adapter > Page 106
RGB adapter > Page 106

Häfele Connect Mesh remote controls

Remote control > Page 107
Wall mounted push button > Page 107

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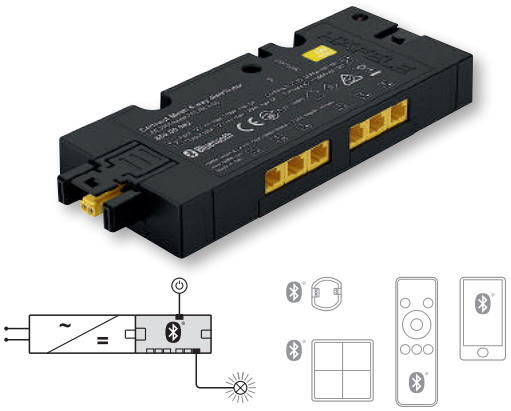
Häfele Connect Mesh Box

Häfele Connect Mesh 6-way distributor, with switching function

> Control several light colors on one box!
> Each output port can be controlled individually.



Häfele Connect Mesh App

> Detects and reports new nodes in the network independently
> Intuitively assign functions to switches
> Set up light groups and scenes
> Share your protected access with others
> The Häfele Connect Mesh App is free for Apple iOS® and Android™.

> Area of application:	For on/off switching and dimming (0–100%) of monochrome lights; or, in conjunction with adapters, for the operation of multi-white lights, RGB lights, and electrically operated fittings
> Version:	With programmable switching input for standard Loox switches (switching function programmable via app; each active component can control each passive component, see page 120)
> Material:	Plastic
> Colour:	Black
> Dim. (L x W x H):	120 x 50 x 16 mm
> Number of connections:	1x input port with box to box plug 1x output port with box to box socket 1x input port switch socket 6x output ports device sockets (2-pin) can be controlled from any active component of the network
> Standby power consumption:	<0,5 W
> Supplied with:	1 distributor

	Voltage	Max. connected wattage W	Cat. No.
Monochrome	5 12 V	60	**850.00.042**
	5 24 V	120	**850.00.043**

Häfele's BLE Connect Mesh Box System has been awarded the Interzum 2019 award for High Product Quality.

Range of smartphone or tablet to nearest Häfele Connect Mesh component approx. 10 m.
The distance within the network applies in the event of a clear view.
Obstacles and electromagnetic interference sources can reduce the range. Another 6-way distributor can be used as a signal amplifier to compensate for the loss of range.

Please order adapters for multi-white lights, RGB lights or electrically operated fittings separately, see page 106

6-way distributor for monochrome lights or other 2-pin devices, such as electrically operated fittings, see page 106

for Apple iOS®

for Android™

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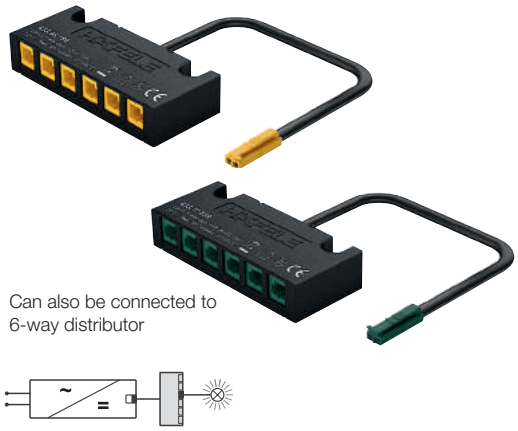
Adapter

Häfele Loox5 6-way distributor without switching function



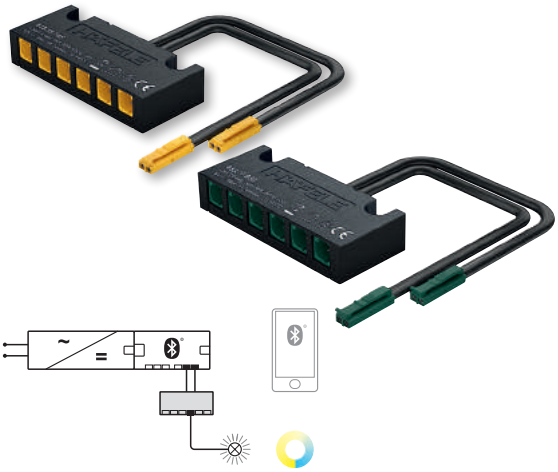
Can also be connected to 6-way distributor

The Loox5 6-way Distributor can be connected to the Connect Mesh Box to provide extra number of output ports for monochrome lights.

> Material: Plastic
> Colour: Black
> Dim. (L x W x H): 70 x 30 x 14 mm
> Number of connections: 1 x input port with plug, monochrome
6 x output ports device sockets
> Supplied with: 1 distributor

Voltage V	Max. connected wattage W	Without switching function
5 12 V	60	**833.95.786**
5 24 V	120	**833.77.839**

Häfele Loox5 multi-white adapter for Häfele Connect Mesh 6-way distributor

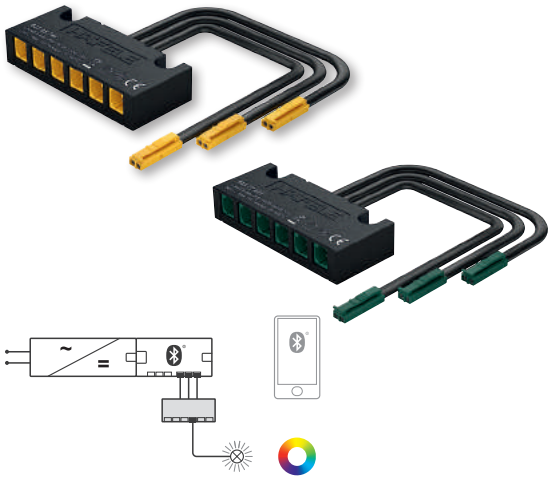


1 multi-white adapter occupies 2 output ports at the 6-way distributor.

> Area of application: For connecting multi-white lights to the Häfele Connect Mesh 6-way distributor
> Material/colour: Plastic, black
> Dim. (L x W x H): 70 x 30 x 14 mm
> Number of connections: 2x input port with plug, monochrome
6x output ports device sockets, multi white
> Supplied with: 1 distributor with 80 mm lead

Voltage	Max. connected wattage W	Cat. No.
5 12 V	60	**833.95.745**
5 24 V	120	**833.77.830**

Häfele Loox5 RGB adapter for Häfele Connect Mesh 6-way distributor



1 RGB adapter occupies 3 output ports at the 6-way distributor.

> Area of application: For connecting RGB lights to the Häfele Connect Mesh 6-way distributor
> Material/colour: Plastic, black
> Dim. (L x W x H): 70 x 30 x 14 mm
> Number of connections: 3x input port with plug, monochrome
6x output ports for device sockets, RGB
> Supplied with: 1 distributor with 80 mm lead

Voltage	Max. connected wattage W	Cat. No.
5 12 V	60	**833.95.746**
5 24 V	120	**833.77.831**

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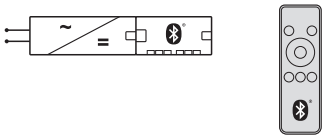
10 YEARS GUARANTEE*

Controls

Häfele Connect Mesh remote control



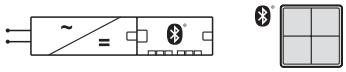
Easiness
> One remote control for all applications: monochrome lights, multi-white lights, RGB lights and electrically operated fittings

> Area of application:	For controlling Häfele Connect Mesh components in a network
> Configuration:	Easy, direct pairing with a 6-way distributor or programming of buttons via app to control each node of the network
> Version:	Multi-function control panel
> Material:	Plastic
> Colour:	Top shell: black, lower shell: white
> Dim. (L x W x H):	130 x 42 x 11 mm
> Battery service life:	3,600 duty cycles
> Supplied with:	1 remote control

	Cat. No.
Remote control	**850.00.040**

Please order Häfele Connect Mesh 6-way distributor separately.
Please order 2 CR2032 lithium button cell batteries separately.

Häfele Connect Mesh push button, wall mounted



> Area of application:	For controlling Häfele Connect Mesh components in a network (all functions which are possible by pressing or holding down a key)
> Configuration:	Easy, direct pairing with a 6-way distributor or programming of buttons via app to control each node of the network
> Version:	4-button panel
> Material:	Plastic
> Colour:	Push button: black, frame: white
> Dim. (L x W x H):	81 x 81 x 12 mm
> Mounting:	For screw fixing or glue fixing to any wall
> Battery service life:	1,800 duty cycles
> Supplied with:	1 push button, wall mounted

	Cat. No.
Wall mounted push button	**850.00.041**

Please order Häfele Connect Mesh 6-way distributor separately
Please order 1 lithium button cell battery CR2430 separately.

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For large and small requirements.

The choice is yours.

10 YEARS GUARANTEE* UK CA IP20

Connect Mesh.
For complete flexibility.

If you have a comprehensive light installation to control or generally want unrestricted freedom when setting up your lighting scenarios, Connect Mesh with its full range of functions, is the right choice.

The Connect Mesh system.

> The heart of the system is the Connect Mesh app, which is used for setting up and controlling.

> You define the groups yourself.

> You can freely define the scenarios you require.

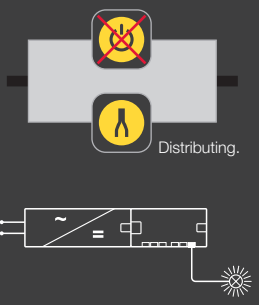
> You have flexibility when assigning groups and scenarios to the control units.

> You can integrate and combine all of the available control units in your application.

Switching or networking. The distributors at a glance.

The Loox5 system is designed in such a way that control, distribution and networking take place via one or more connected distributors.
Depending on the distributor that is selected, control can be wired or wireless.
Here is a selection guide so that you can quickly find the right distributor for your project.

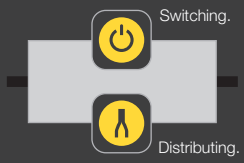
Without control.



In some cases, your lighting system does not require control because it is not necessary on site, for example,

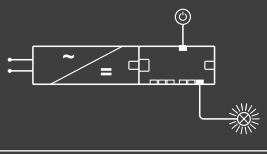
> The solution: **6-way distributor without switching function**

With wired controller.



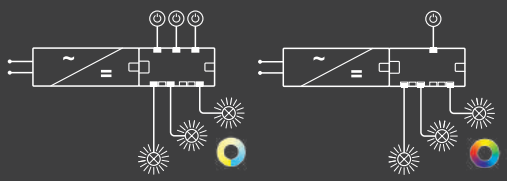
Various distributors are available for wired control of lighting systems.

The basic version allows you to control all 6 outputs simultaneously with 1 switch.



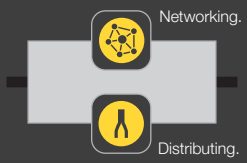
> The solution: **6-way distributor with switching function**

If you process multi-white or RGB light, you need special distributors to define a light colour or a colour gradient (RGB only).



> The solutions: **6-way MW distributor with switching function, 6-way RGB distributor with switching function**

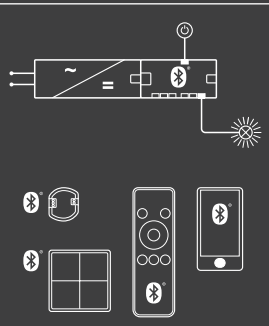
With wireless control.



For extremely flexible control options, you can use wireless solutions with push button sender, radio remote control or an app.

More flexibility in setting up networks regardless of the size of your lighting system is provided with smart distributors with which you can implement almost every customer requirement and, if necessary, even have the option of integrating wired switches as well.

> The solution: **Connect Mesh 6-way distributor with switching function**



Distributing

Distributors

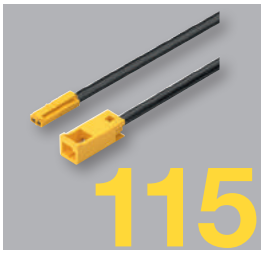
6-way distributor without switching function	> Page 114
Box to box 6-way distributor without switching function	> Page 114

Leads and connectors for LED strip lights

Cables for LED strip light monochrome, 5 mm	> Page 117
Cables for LED strip light monochrome, 8 mm	> Page 118
Cables for LED silicone strip light, monochrome, 8 mm	> Page 119
Cables for LED strip light multi-white, 8 mm	> Page 119
Cable for LED strip light RGB, 10 mm	> Page 120

Extension leads

Extension lead monochrome/2-pin	> Page 116
Extension lead multi-white	> Page 115
Extension lead RGB	> Page 115



Adapter

Adapters Loox/Loox5	> Page 122

Modular leads

Lead for modular lights and other modular devices	> Page 116

Mains leads

With C7 socket (Small appliance plug)	> Page 124
With C13 socket (Cold appliance plug)	> Page 124

Switch leads

Extension lead for switch	> Page 116
Lead for modular switches	> Page 116
Lead for switches	> Page 116

Cable guide

Cable channel	> Page 121

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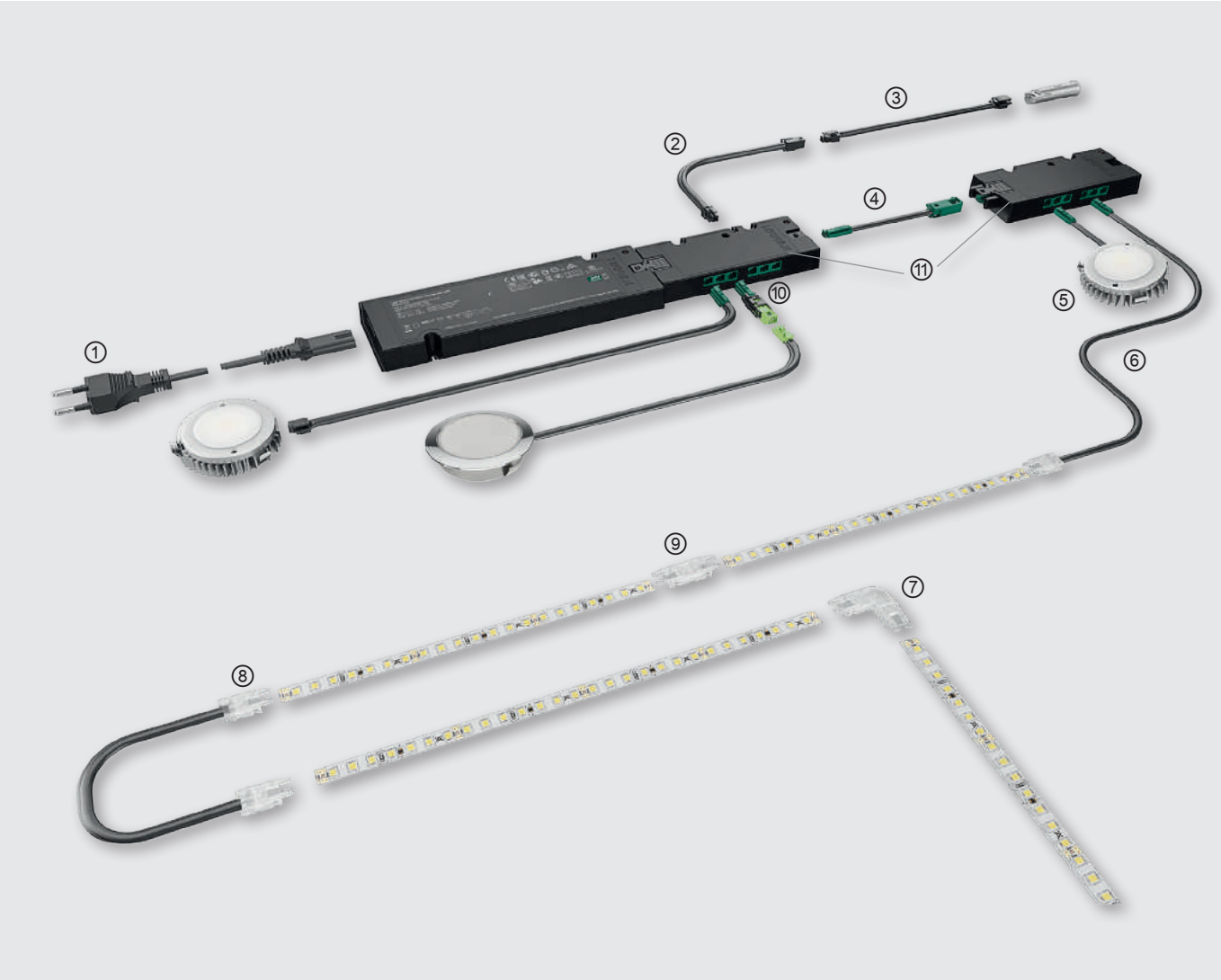
Distributing

Definition of terms



① Mains lead
② Extension lead for switch
③ Lead for modular switches
④ Extension lead
⑤ Light with permanent lead
⑥ Lead for led strip light
⑦ Corner connector for LED strip light
⑧ Interconnecting lead for LED strip light
⑨ Clip connector for LED strip light
⑩ Adapter
⑪ 6-way distributor

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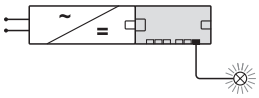
Distributors

Häfele Loox5 6-way distributor

Plug connection box to box

> The connection of the distributors with the driver can be done via a box to box plug-in connection or via an extension lead. Any number of distributors can be connected to the driver. Observe maximum wattage!

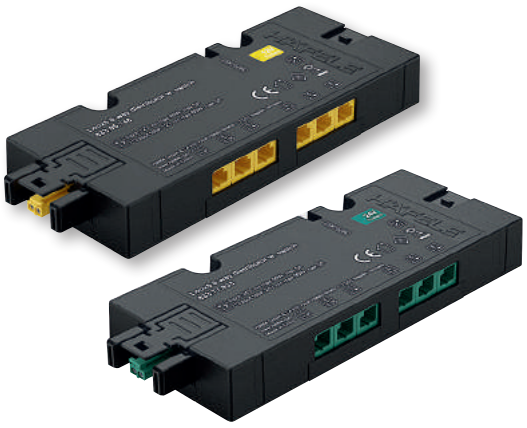
Häfele Loox5 box to box 6-way distributor without switching function



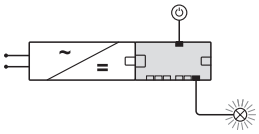
> Material: Plastic
> Colour: Black
> Dim. (L x W x H): 120 x 50 x 16 mm
> Number of connections: 1 x input port with box to box plug
1 x output port with box to box socket
6 x output ports device sockets
> Supplied with: 1 distributor

Voltage V	Max. connected wattage W	Box to box without switching function
5 12 V	60	**833.95.747**
5 24 V	120	**833.77.832**

Häfele Loox5 box to box 6-way distributor with switching function



1 switch controls all output ports



> Material: Plastic
> Colour: Black
> Dim. (L x W x H): 120 x 50 x 16 mm
> Number of connections: 1 x input port with box to box plug
1 x output port with box to box socket
1 x input port switch socket
6 x output ports device sockets
> Supplied with: 1 distributor

Voltage V	Max. connected wattage W	Box to box with switching function
5 12 V	60	**833.95.748**
5 24 V	120	**833.77.833**

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

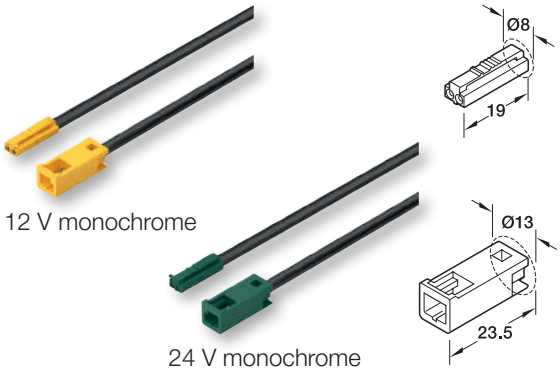
Extension leads

Häfele Loox5 extension leads

Maximum lead length from the Loox5 driver to the device is 10 m.

Long cable lengths in combination with large loads (strip light lengths) can result in voltage losses in the cable. This leads to a visible loss of brightness in the lights. The illuminance listed with the lights has been determined by the rated output voltage of the driver (12 V or 24 V).

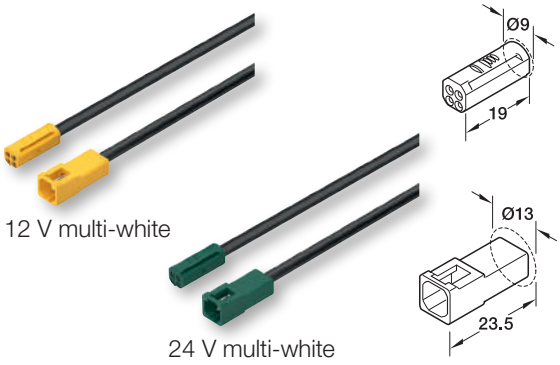
Häfele Loox5 extension leads monochrome



> Area of application: For monochrome lights and other 2-pin devices and distributors
> Material: Plastic
> Current carrying capacity: Max. 5 A
> Drill hole Ø: Plug 8 mm, socket 13 mm
> Supplied with: 1 extension lead, 1 plug/1 socket

Type of cable 20	Voltage	2000 mm
Monochrome (2-wire 18 AWG)	5 12 V	833.95.714
	5 24 V	833.95.717

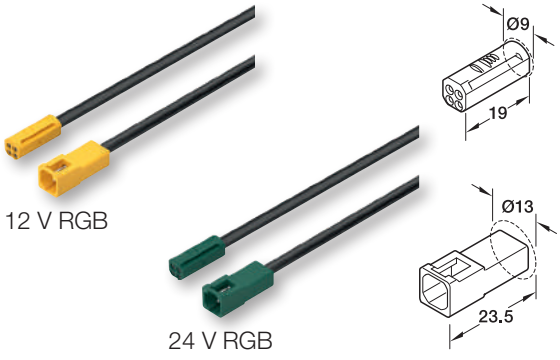
Häfele Loox5 extension leads multi-white



> Area of application: For multi-white lights
> Material: Plastic
> Current carrying capacity: Max. 3.5 A
> Drill hole Ø: Plug 9 mm, socket 13 mm
> Supplied with: 1 extension lead, 1 plug/1 socket

Type of cable	Voltage	2000 mm
Multi-white (3-wire 20 AWG)	5 12 V	833.95.715
	5 24 V	833.95.720

Häfele Loox5 extension leads RGB



> Area of application: For RGB lights
> Material: Plastic
> Current carrying capacity: Max. 3.5 A
> Drill hole Ø: Plug 9 mm, socket 13 mm
> Supplied with: 1 extension lead, 1 plug/1 socket

Type of cable	Voltage	2000 mm
RGB (4-wire 20 AWG)	5 12 V	833.95.716
	5 24 V	833.95.721

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

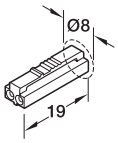
Leads

Modular

Häfele Loox5 lead for modular lights and other modular devices

12 V monochrome

24 V monochrome

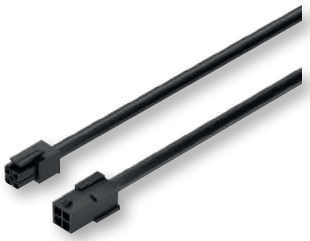


> Area of application: For monochrome lights and other 2-pin devices and distributors
> Version: With snap-in connector
> Drill hole Ø: Plug 8 mm
> Supplied with: 1 lead plug/plug

Type of cable	Current carrying capacity	Voltage	Length mm	Cat. No.
Monochrome (2-wire 18 AWG)	max. 5 A	5 12 V	2000	833.95.830
		5 24 V		833.95.835

Switch leads

Häfele Loox extension lead for switches



> Area of application: Switches and modular switches
> Drill hole Ø: Plug 12 mm
> Supplied with: 1 extension lead plug/socket

Length mm	Cat. No.
2000	833.89.067

The maximum lead length of a switch is 6 m.

Häfele Loox lead, for modular switches

> Area of application: Modular switches
> Version: With snap-in connector
> Drill hole Ø: Plug 12 mm
> Supplied with: 1 lead plug/plug

Length mm	Cat. No.
1000	833.89.141
2000	833.89.142

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

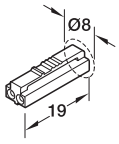
Leads

For LED strip light monochrome, 5 mm

Häfele Loox5 lead for LED strip light monochrome, 5 mm

12 V monochrome

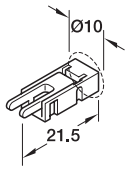
24 V monochrome



> Current carrying capacity: Max. 3.5 A
> Width: Clip 7 mm
> Drill hole Ø: Plug 8 mm
> Supplied with: 1 lead plug/clip

Type of cable	Voltage	Length mm	Cat. No.
Monochrome (2-wire 20 AWG)	5 12 V	2000	**833.95.705**
	5 24 V	2000	**833.95.711**

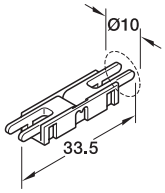
Häfele Loox5 interconnecting lead for LED strip light monochrome, 5 mm



> Current carrying capacity: Max. 3.5 A
> Width: Clip 7 mm
> Drill hole Ø: Clip 10 mm
> Supplied with: 1 interconnecting lead clip/clip

Type of cable	Length mm	Cat. No.
Monochrome (2-wire 20 AWG)	500	**833.89.195**

Häfele Loox5 clip connector for LED strip light monochrome, 5 mm



> Current carrying capacity: Max. 3.5 A
> Width: Clip 7 mm
> Drill hole Ø: Clip 10 mm
> Supplied with: 10 clip connector

Length mm	Cat. No.
33.5	**833.89.207**

Häfele Loox5 corner connector for LED strip light monochrome, 5 mm

> Current carrying capacity: Max. 3.5 A
> Supplied with: 10 corner connectors

Length mm	Width mm	Cat. No.
21	21	**833.89.190**

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Leads

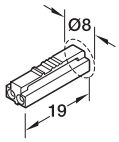
For LED strip light monochrome, 8 mm

ALSO FOR CONSTANT CURRENT STRIP LIGHTS

Häfele Loox5 lead for LED strip light monochrome, 8 mm

12 V monochrome

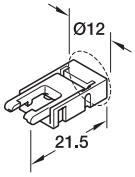
24 V monochrome



> Current carrying capacity: Max. 5 A
> Width: Clip 10 mm
> Drill hole Ø: Plug 8 mm
> Supplied with: 1 lead plug/clip

Type of cable	Voltage	Length mm	Cat. No.
Monochrome (2-wire 18 AWG)	5 12 V	2000	**833.95.700**
	5 24 V	2000	**833.95.706**

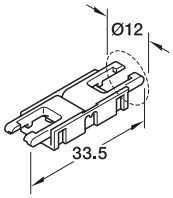
Häfele Loox5 interconnecting lead for LED strip light monochrome, 8 mm



> Current carrying capacity: Max. 5 A
> Width: Clip 10 mm
> Drill hole Ø: Clip 12 mm
> Supplied with: 1 lead clip/clip

Type of cable	Length mm	Cat. No.
Monochrome (2-wire 18 AWG)	500	**833.89.192**

Häfele Loox5 clip connector for LED strip light monochrome, 8 mm



> Current carrying capacity: Max. 5 A
> Width: Clip 10 mm
> Drill hole Ø: Clip 12 mm
> Supplied with: 10 clip connector

Length mm	Cat. No.
33.5	**833.89.206**

Häfele Loox5 corner connector for LED strip light monochrome, 8 mm

> Current carrying capacity: Max. 5 A
> Supplied with: 10 corner connectors

Length mm	Width mm	Cat. No.
24	24	**833.89.187**

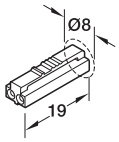
LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Leads

For LED silicone strip light monochrome, 8 mm

Häfele Loox5 IP44 lead for LED silicone strip light, monochrome 8 mm

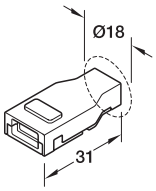
24 V monochrome



> Current carrying capacity: Max. 5 A
> Width: Silicone plug 15 mm
> Drill hole Ø: Plug 8 mm
> Supplied with: 1 lead plug/clip

Type of cable	Voltage	Length mm	Cat. No.
Monochrome (2-wire 18 AWG)	5 24 V	2000	**833.95.709**

Häfele Loox5 IP44 interconnecting lead for LED silicone strip light, monochrome 8 mm



> Current carrying capacity: Max. 5 A
> Width: Clip 15 mm
> Drill hole Ø: Clamp 18 mm
> Supplied with: 1 lead clip/clip

Type of cable	Length mm	Cat. No.
Monochrome (2-wire 18 AWG)	2000	**833.89.205**

Connections with degree of protection IP20 can be established with leads and clips from page 132 for the monochrome silicone strip light 8 mm.

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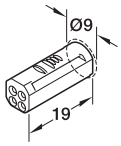
Leads

For LED strip light RGB, 10 mm

Häfele Loox5 lead for LED strip light RGB, 10 mm

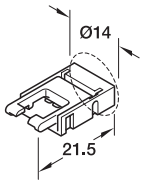
24 V RGB



> Current carrying capacity: Max. 3.5 A
> Width: Clip 12 mm
> Drill hole Ø: Plug 9 mm
> Supplied with: 1 lead plug/clip

Type of cable	Voltage	Length mm	Cat. No.
RGB (4-wire 20 AWG)	5 24 V	2000	**833.95.710**

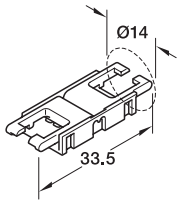
Häfele Loox5 interconnecting lead for LED strip light RGB, 10 mm



> Current carrying capacity: Max. 3.5 A
> Width: Clip 12 mm
> Drill hole Ø: Clip 14 mm
> Supplied with: 1 lead clip/clip

Type of cable	Length mm	Cat. No.
RGB (4-wire 20 AWG)	500	**833.89.201**

Häfele Loox5 clip connector for LED strip light RGB, 10 mm



> Current carrying capacity: Max. 3.5 A
> Width: Clip 12 mm
> Drill hole Ø: Clip 14 mm
> Supplied with: 10 clip connector

Length mm	Cat. No.
33.5	**833.89.209**

Häfele Loox5 corner connector for LED strip light RGB, 10 mm

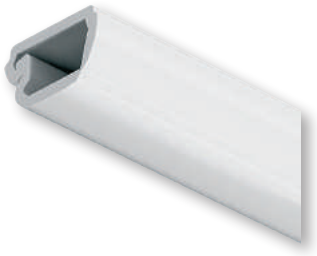
> Current carrying capacity: Max. 3.5 A
> Supplied with: 10 corner connectors

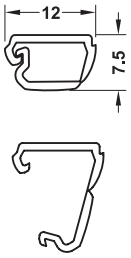
Length mm	Width mm	Cat. No.
26	26	**833.89.189**

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Cable guide

Häfele Loox cable channel





> Dim. (L x W x H): 2500 x 12 x 7.5 mm
> Application: Concealing visible cables in furniture and cabinets
> Supplied with: 1 cable channel with adhesive tape

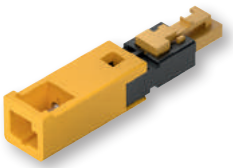
Finish	Cat. No.
Brown, RAL 8007	**833.89.023**
White, RAL 9010	**833.89.013**

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

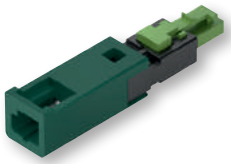
Adapter

Loox driver > Loox5 device

Adapter for devices with Loox5 plug for connecting to Loox driver



12 V: Loox5 socket/Loox plug



24 V: Loox5 socket/Loox plug

> Area of application: For connecting Loox5 devices to Loox drivers or Loox distributors. Suitable for all devices with 2-pin Loox5 plug, e.g. monochrome lights, distributors, charging stations, etc.
> Length: 45 mm
> Current carrying capacity: Max. 3.5 A
> Drill hole Ø: 13 mm
> Packing: 6 piece

Device	Power supply unit	Max. connected wattage W	Cat. No.
5 12 V	12 V	max. 42	**833.95.752**
5 24 V	24 V	max. 84	**833.77.837**

Not suitable for 4-pin Loox5 plugs (multi-white or RGB).
The current carrying capacity is limited to 3.5 A.
Observe maximum wattage!

Adapter leads for LED strip lights with Loox5 clip for connecting to Loox driver or colour mixer

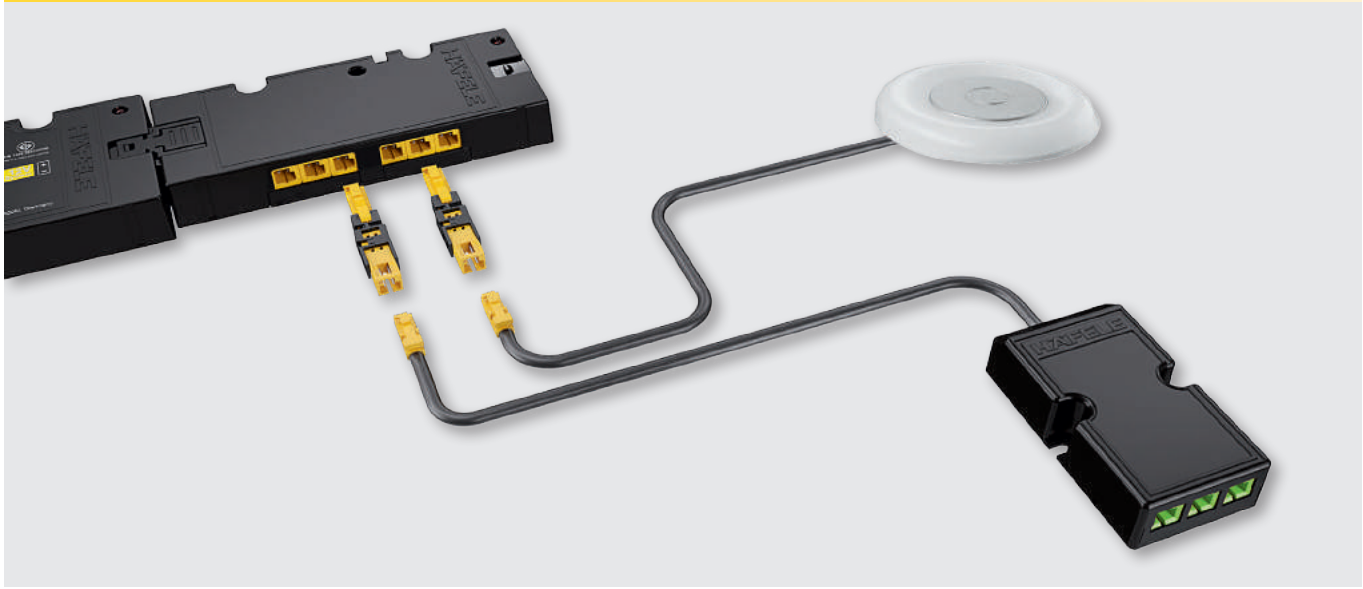
Device	Power supply unit	Length mm	For LED strip light	Cat. No.
5 12 V	12 V	2000	monochrome 5 mm monochrome 8 mm	**833.72.742** **833.72.716**
5 24 V	24 V	2000	monochrome 8 mm	**833.75.705**

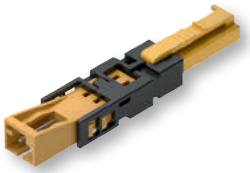
LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Adapter

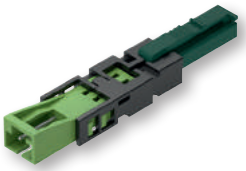
Loox5 driver > Loox device

Adapter for devices with Loox plug for connecting to Loox5 driver





12 V: Loox socket/Loox5 plug



24 V: Loox socket/Loox5 plug

> Area of application: For connecting Loox devices to Loox5 drivers or Loox5 distributors. Suitable for all devices with Loox plug, e.g. monochrome lights, distributors, charging stations, colour mixers for multi-white and RGB as well as electrically operated fittings, converters, etc.
> Length: 50 mm
> Current carrying capacity: Max. 3.5 A
> Drill hole Ø: 12 mm
> Packing: 6 piece

Device	Power supply unit	Max. connected wattage W	Cat. No.
12 V	5 12 V	max. 42	**833.95.753**
24 V	5 24 V	max. 84	**833.77.838**

Not suitable for 3-pin Loox plugs (multi-white) or 4-pin Loox plugs (RGB).
The current carrying capacity is limited to 3.5 A.
Observe maximum wattage!

LOOX.2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Mains leads

Mains lead, country-specific, C7 socket (small appliance plug)

833.89.002 EU

833.89.009 EU

> Voltage: 250 V
> Length: 2000 mm
> Supplied with: 1 piece

Plug design	Cat. No.
	833.89.002
	833.89.009

Mains lead, country-specific, C13 socket (cold appliance plug)

833.89.265 EU

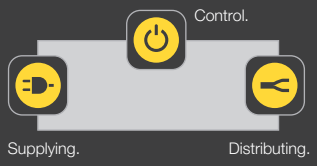
> Voltage: 250 V
> Length: 2000 mm
> Supplied with: 1 piece

Plug design	Cat. No.
	833.89.265

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

The driver makes the difference.

The choice is yours.



Light made easy.

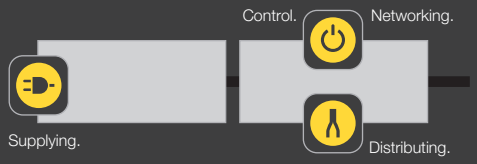
You want to incorporate a small lighting system into a piece of furniture. The planing only includes a few lights, and the connection is wired.

We have a reduced system for this.

It is based on a driver to which both the switch and the lights can be directly connected. This simplifies the set-up of your lighting system while limiting your flexibility slightly.

The reduced concept.

> The driver takes over three functions.
  – Supply to the system.
  – Distribution to a maximum of 4 lights which can be plugged in directly.
  – Control of the system via the directly pluggable switch.
> Life time 30,000 h.
> Only suitable for lights.



Perfect for room light and furniture light.

Your light project requires light in several furniture items and/or in different rooms. You need a variety of lights, and would like to integrate different controllers.

The flexible system is the right choice in this case.

This system makes you completely open for individual customer requirements.

The flexible concept.

> The driver is exclusively intended for providing a stable power supply.

> With a life time of 50,000 hours during permanent operation, it is extremely durable.

> The universal input voltage makes worldwide use possible.

> You can connect one or more distributors to the driver in series (box to box concept).

> Suitable for project applications.

Supplying

Häfele Loox5 drivers 12 V

Constant volatge 12V Loox5	> Page 129
Constant volatge 12V Loox5s	> Page 130

Häfele Loox5 drivers 24 V

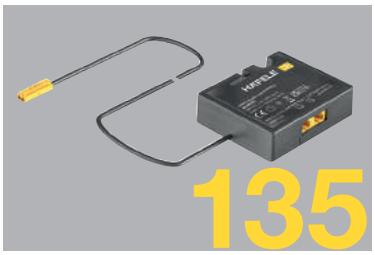
Constant voltage 24 V Loox5	> Page 131
Constant voltage 24 V (Loox5, 240W)	> Page 132
Constant voltage 24 V Loox5s	> Page 133

Leads and distributors

Extension leads 12 V / 24 V / 350 mA	> Page 134
6-way distributor – for connecting additional lights to one driver	> Page 134
3-way distributor with switching function 12 V / 24 V	> Page 134

Häfele Loox distributor

2-way distributor with switching function	> Page 135



Häfele Loox converter

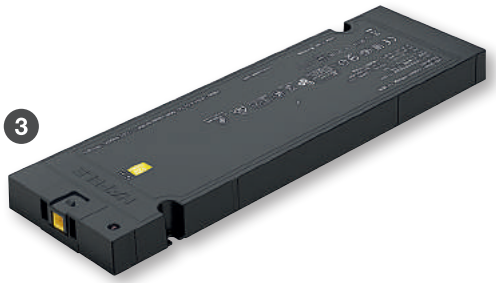
Converter 24 V to 12 V	> Page 136
Converter 12 V to 24 V	> Page 136

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Drivers

12 V

Häfele Loox5 driver constant voltage 12 V



EXTRA SLIM

> Version: With overload protection
> Colour: Black
> Degree of protection: IP20
> Output voltage: DC 12 V +/– 3 %
> Number of connections: 1x socket Loox5 12 V
> Life time: >50,000 hours
> Supplied with: 1 driver with mounting accessories

5 12 V	Output power W	Output current A	Mains voltage	Standby power consumption W	Dimensions (L x W x H) mm	Cat. No.
1	20	1.67	100–240 V~; 50–60 HZ	0.07	140 x 50 x 16	**833.95.000**
			220–240 V~; 50–60 HZ	0.08	140 x 50 x 16	**833.95.001**
2	40	3.33	100–240 V~; 50–60 HZ	0.12	191 x 60 x 16	**833.95.002**
3	60	5.00	100–240 V~; 50–60 HZ	0.14	230 x 70 x 16	**833.95.003**

833.95.000 is only permitted for use outside the EU.

Ambient temperature –25 °C to +45 °C (60 W: 40 °C)
Ensure that there is a sufficient air supply and circulation at the mounting location.
The life time is doubled with an ambient temperature of <30° C.

The maximum lead length from the Loox5 driver to the device is 10 m. Long cable lengths in combination with large loads (strip light lengths) can result in voltage losses in the cable. This leads to a visible loss of brightness in the lights. The illuminance listed with the lights has been determined by the rated output voltage of the driver (12 V or 24 V).

Mains lead, country-specific, C7 socket (small appliance plug), 2 metre lead length

> Description: EU
> Supplied with: 1 piece

Plug design	Article No.
	833.89.002
	833.89.009

Note: Distribution and Switching functions can be achieved with the Loox5 12 V Drivers with the help of Connect Mesh System, Box to Box Distributors and Adapters with Switching function.

LOOX.2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Drivers

12 V

Häfele Loox5s Driver, 12 V DC ± 3%

With switching function for 1 switch

5 12 V

> With switching function
> Extremely flat, 16 mm
> 12 V drivers with Loox generation plug system

Driver, 20 W, 230 V

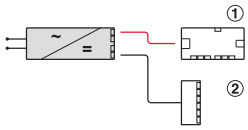
Driver, 40 W, 230 V

> Area of application:	For LED lights (not suitable for other devices)
> Material:	Plastic
> Colour/finish:	Black
> Mains frequency:	50 – 60 Hz
> Output voltage:	12 V DC ± 3%
> Connected output ports:	4 x sockets, Loox 2-pin 12 V
> Control input ports:	1 x socket, Loox switch
> Installation:	For screwing, for glue fixing
> Installation reference:	Provide for suicient air supply and circulation at the mounting location. Provide inspection opening.
> Supplied with:	1 power supply unit with fixing material

Note

Please note the regional mains voltage when selecting the power supply unit!

Connection of distributors



① Distributors with a box to box connection cannot be engaged directly. An extension lead is required. Please order separately.
② 6-way distributor with integrated lead can be connected directly

Mains voltage V	Output power W	Output current A	Standby power consumption W	Ambient temperature °C	Dim. (L x W x H) mm	Cat. No.
220–240 V AC						
220 – 240	20	1.67	0.2	-25–45	138 x 50 x 16	**833.72.933**
	40	3.33	0.4	-25–45	190 x 60 x 16	**833.72.935**
	60	5	0.5	-25–45	220 x 70 x 16	**833.72.967**

Order reference

Please order mains lead with flat EU plug 833.89.002 separately.

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

10 YEARS GUARANTEE* SELV IP20

Drivers

24 V

Häfele Loox5 driver constant voltage 24 V

EXTRA SLIM

> Version: With overload protection
> Colour: Black
> Degree of protection: IP20
> Output voltage: DC 24 V +/– 3 %
> Number of connections: 1x socket Loox5 24 V
> Life time: >50,000 hours
> Supplied with: 1 driver with mounting accessories

5 24 V	Output power W	Output current A	Mains voltage	Standby power consumption W	Dimensions (L x W x H) mm	Cat. No.
1	20	0.83	100-240 V~; 50-60 HZ	0.11	140 x 50 x 16	**833.95.008**
			220-240 V~; 50 -60 HZ	0.10	140 x 50 x 16	**833.95.009**
2	40	1.67	100-240 V~; 50-60 HZ	0.15	191 x 60 x 16	**833.95.010**
3	90	3.75	100-240 V~; 50-60 HZ	0.21	316 x 70 x 16	**833.95.011**

833.95.008 is only approved for use outside the EU.

Ambient temperature –25 °C to +45 °C
Ensure that there is a sufficient air supply and circulation at the mounting location.
The life time is doubled with an ambient temperature of <30° C.

Maximum lead length from the Loox5 driver to the device is 10 m. Long cable lengths in combination with large loads (strip light lengths) can result in voltage losses in the cable. These lead to visible loss of brightness in the lights. The illuminance listed with the lights has been determined with the rated output voltage of the driver.
(12 V or 24 V).

Mains lead, country-specific, C7 socket (small appliance plug), 2 metre lead length

> Description: EU
> Supplied with: 1 piece

Plug design	Article No.
	833.89.002
	833.89.009

Note: Distribution and Switching functions can be achieved with the Loox5 12 V Drivers with the help of Connect Mesh System, Box to Box Distributors and Adapters with Switching function.

LOOX.2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Drivers

24 V

Häfele Loox5 driver constant voltage 24 V

Driver 240 W, 200-240 V~
833.95.012

EXTRA POWER

> Version: With overload protection
> Colour: Black
> Degree of protection: IP20
> Standby power consumption: <0,5 W
> Output voltage: DC 24 V +/– 3 %
> Dim. (L x W x H): 234 x 75 x 38 mm
> Life time: >50,000 hours
> Supplied with: 1 driver with mounting accessories

5 24 V	Mains voltage	Output power W	Output current A	Number of connections Loox5 24 V	Cat. No.
200–240 V~: typical input voltage in UK, AU, EU, KR					
1	200–240 V~, 50–60 Hz	240 (2 x 120)	2 x 5	2x socket	**833.95.012**

Please pay attention to the regional input voltage when choosing the driver!

The maximum lead length from the Loox5 driver to the device is 10 m. Long cable lengths in combination with large loads (strip light lengths) can result in voltage losses in the cable. This leads to a visible loss of brightness in the lights. The illuminance listed with the lights has been determined by the rated output voltage of the driver (12 V or 24 V).

The 240W LED driver will be powered by a three pin EU plug cable using the below article code
Country-specific mains leads

> Supplied with: 1 piece

Plug design	Article No.
	833.89.265

Note: The Loox5 24 V 240 W Driver is specifically used for cove applications where strip lights of longer lengths are installed that requires overall more power output. Thus switching function is not needed in this case.

LOOX 2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

10 YEARS GUARANTEE* SELV IP20

Drivers

24 V

Häfele Loox5s driver, 24 V DC ± 3%

With switching function for 1 switch

5 24 V

> With switching function
> Extremely flat, 16 mm
> 24 V drivers with Loox generation plug system

Driver, 20 W, 230 V

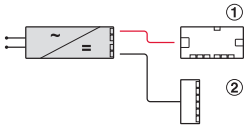
Driver, 40 W, 230 V

Driver, 90 W, 230 V

> Area of application:	For LED lights (not suitable for other devices)
> Material:	Plastic
> Colour/finish:	Black
> Mains frequency:	50 - 60 Hz
> Output voltage:	24 V DC ± 3%
> Switched outputs:	4 x sockets, 6 sockets for 90 W Loox 2-pin 24 V
> Control input ports:	1 x socket, Loox switch
> Installation:	For screw fixing, for adhesive fixing
> Installation reference:	Ensure that there is a sufficient air supply and Provide inspection opening.
> Supplied with:	1 power supply unit with fixing material

Note
Please note the regional mains voltage when choosing the driver!

Connection of distributors



① Distributors with a box-to-box connection cannot be snapped in directly. An extension lead is required. Please order separately.
② 6-way distributor with integrated lead can be connected directly

Mains voltage V	Output power W	Output current A	Standby power consumption W	Ambient temperature °C	Dim. (L x W x H) mm	Cat. No.
220 - 240 V AC						
220 - 240	20	0.83	0.2	-25–45	138 x 50 x 16	**833.75.933**
	40	1.67	0.25	-25–45	190 x 60 x 16	**833.75.935**
	60	2.5	0.33	-25–45	210 x 70 x 16	**833.75.938**
	90	3.75	0.5	-25–45	292 x 70 x 16	**833.75.937**

Order reference
Please order mains lead with flat EU plug 833.89.002 separately.

LOOX.2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Leads and Distributors

Extension leads 12 V / 24 V / 350 mA

12 V system, 3.5 A/20 AWG

24 V system, 3.5 A/20 AWG

350 mA system

> Supplied with: 1 lead

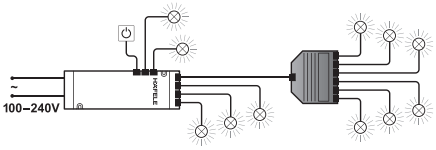
Application	Length	
	1000 mm	2000 mm
12 V system, 3.5 A/20 AWG	**833.73.765**	**833.73.766**
24 V system, 3.5 A/20 AWG	**833.77.713**	**833.77.714**
350 mA system	**833.80.705**	**833.80.706**

For extending the connection leads of the LED lights.
> Lead length from driver to light max. 6 m

6-way distributor – for connecting additional lights to one driver

12 V system, 3.5 A/20 AWG

24 V system, 3.5 A/20 AWG

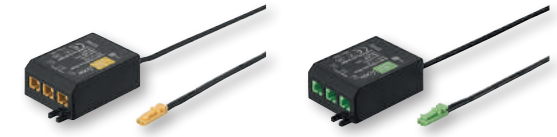


> Length x width: 58.5 x 34 mm
> Height: 18 mm
> Supplied with: 1 distributor with 2 m lead

Application	Cat. No.
12 V system, 3.5 A/20 AWG	**833.74.798**
24 V system, 3.5 A/20 AWG	**833.77.724**

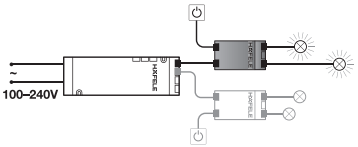
With the 6-way distributor, up to 6 additional lights can be operated from one driver slot.

3-way distributor with switching function 12 V / 24 V



12 V system, 3.5 A/20 AWG

24 V system, 3.5 A/20 AWG



> Length x width: 57 x 34 mm
> Height: 18 mm
> Power consumption: 0.1 W
> Supplied with: 1 distributor with 200 m lead

Application	Wattage	Cat. No.
12 V system, 3.5 A/20 AWG	max. 42 W	**833.74.751**
24 V system, 3.5 A/20 AWG	max. 84 W	**833.77.723**

Up to 3 lights can be operated independently of the driver using the 3-way distributor with switching function connected to the output of the light.

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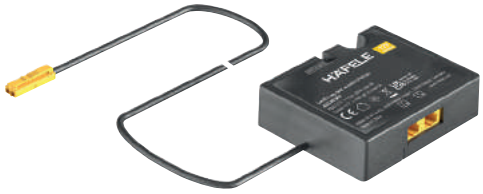
10 YEARS GUARANTEE*

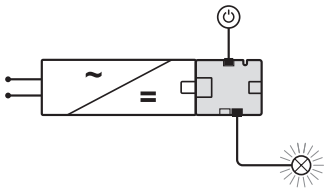
Distributors

Häfele Loox5 2-way distributor

With switching function for 1 switch

5 12 V





1 switch controls all output ports

> With switching function for 2 outputs
> Any number of distributors can be connected to the driver.
> Note the maximum output power of the driver!

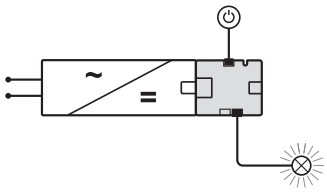
> Material:	Plastic
> Colour/Finish:	Black
> Dim. (L x W x H):	60 x 50 x 16 mm
> Cable length:	200 mm
> Supplied with:	1 distributor with lead

	Input ports	Outputs	Wattage capacity W	Cat. No.
5 12 V	1 x plug, Loox5 2-pin 12 V	2 x sockets, Loox5 2-pin 12 V	60	**833.95.902**

Häfele Loox5 2-way distributor

With switching function for 1 switch

5 24 V



1 switch controls all output ports

> With switching function for 2 outputs
> Any number of distributors can be connected to the driver.
> Note the maximum output power of the driver!

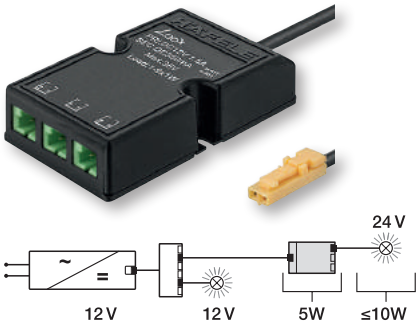
> Material:	Plastic
> Colour/Finish:	Black
> Dim. (L x W x H):	60 x 50 x 16 mm
> Cable length:	200 mm
> Supplied with:	1 distributor with lead

	Input ports	Outputs	Wattage capacity W	Cat. No.
5 24 V	1 x plug, Loox5 2-pin 24 V	2 x sockets, Loox5 2-pin 24 V	120	**833.77.842**

LOOX.2022, HDE-en, 03/22; Dimensional data not binding. We reserve the right to alter specifications without notice.

Converters

Häfele Loox converter 24 V to 12 V – for connecting 24 V lights to the 12 V system



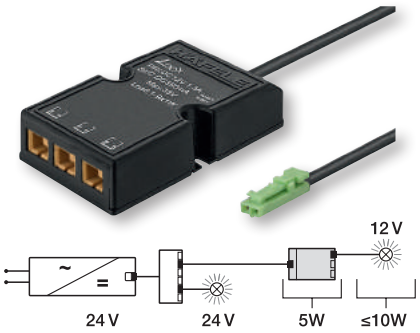
> Application:	Connecting 24 V lights to the 12 V system
> Wattage:	Input 15 W, output 10 W
> Primary side:	DC 12 V
> Secondary side:	DC 24 V
> Number of output ports:	3 connections for 24 V lights
> Supplied with:	1 converter with 200 mm lead

Dimensions (L x W x H) mm	Standby power consumption W	Cat. No.
61 x 34 x 15	0.3	**833.77.934**

12 V 5 12 V — Loox5 12 V driver see page 129
Please order 6-piece adapter set 833.95.753 separately.

Maximum possible connected rating of 10 W per converter.

Häfele Loox converter 12 V to 24 V – for connecting 12 V lights to the 24 V system



> Application:	Connecting 12 V lights to the 24 V system
> Wattage:	Input 15 W, output 10 W
> Primary side:	DC 24 V
> Secondary side:	DC 12 V
> Number of output ports:	3 connections for 12 V lights
> Supplied with:	1 converter with 200 mm lead

Dimensions (L x W x H) mm	Standby power consumption W	Cat. No.
61 x 34 x 15	0.3	**833.74.947**

24 V 5 24 V — Loox5 24 V driver see page 131
Please order 6-piece adapter set 833.77.838 separately.

Maximum possible connected rating of 10 W per converter.

LED strip lights

Technical data, monochrome 5 mm / 8 mm

	Voltage V	Model Häfele Loox5	Quantity LEDs/m	Colour temperature K	Illuminance lx Distance 250 mm	500 mm	750 mm	1000 mm
LED strip lights monochrome, 5 mm								
	5 12 V	LED 2061	120	2700	1860	790	440	270
				3000	1960	850	470	290
				4000	2000	860	480	290
				5000	2060	860	480	290
	5 24 V	LED 3041	120	2700	1860	790	440	270
				3000	1960	850	470	290
				4000	2000	860	480	290
				5000	2060	860	480	290
LED strip lights monochrome, 8 mm								
	5 12 V	LED 2062	60	2700	1050	435	240	145
				3000	1090	455	245	150
				4000	1120	460	260	155
				5000	1130	470	260	160
	5 24 V	LED 3045	120	2700	2145	900	480	300
				3000	2250	940	505	310
				4000	2300	950	510	320
				5000	2300	955	515	320
		LED 3048	120	2700	2870	1210	665	415
				3000	3000	1270	695	430
				4000	3100	1310	715	445
				5000	3100	1320	715	450

Wattage	Luminous flux	Luminous efficiency	Section length	Colour rendering index CRI		Available length		Max. strip length (visual)	Max. strip length wattage-dependent m on the Loox5 driver per slot				
W/m	lm/m	lm/W	mm	R_a	R_9	5 m	50 m	m	20 W	40 W	60 W	90W	120 W*
									Current carrying capacity of strip light: 3.5 A				
9.6	870	91	25	>90	>50	**833.74.328**	**–**	3.0	2.00	4.10	4.375	–	–
9.6	930	97	25	>90	>50	**833.74.329**	**–**	3.0					
9.6	955	99	25	>90	>50	**833.74.330**	**–**	3.0					
9.6	990	103	25	>90	>50	**833.74.331**	**–**	3.0					
9.6	870	91	50	>90	>50	**833.76.308**	**–**	5.5	2.00	4.10	–	8.75	8.75
9.6	930	97	50	>90	>50	**833.76.309**	**–**	5.5					
9.6	955	99	50	>90	>50	**833.76.310**	**–**	5.5					
9.6	990	103	50	>90	>50	**833.76.311**	**–**	5.5					
									Current carrying capacity of strip light: 5 A				
4.8	440	92	50	>90	>50	**833.74.336**	**833.74.340**	6.0	4.10	8.30	12.50	–	–
4.8	465	97	50	>90	>50	**833.74.337**	**833.74.341**	6.0					
4.8	490	102	50	>90	>50	**833.74.338**	**833.74.342**	6.0					
4.8	495	103	50	>90	>50	**833.74.339**	**833.74.343**	6.0					
9.6	920	96	50	>90	>50	**833.76.334**	**833.76.338**	8.0	2.00	4.10	–	9.30	12.5
9.6	970	101	50	>90	>50	**833.76.335**	**833.76.339**	8.0					
9.6	1000	104	50	>90	>50	**833.76.336**	**833.76.340**	8.0					
9.6	1040	108	50	>90	>50	**833.76.337**	**833.76.341**	8.0					
14.4	1270	88	50	>90	>50	**833.76.352**	**833.76.356**	6.2	1.30	2.70	–	6.20	8.3
14.4	1305	91	50	>90	>50	**833.76.353**	**833.76.357**	6.2					
14.4	1340	93	50	>90	>50	**833.76.354**	**833.76.358**	6.2					
14.4	1430	99	50	>90	>50	**833.76.355**	**833.76.359**	6.2					

* 240 W driver (2 slots with 120 W each)

LED strip lights

Technical data, monochrome constant current 8 mm / silicone 8 mm

	Voltage	Model Häfele Loox5	Quantity	Colour tempera-ture	Illuminance lx Distance			
	V		LEDs/m	K	250 mm	500 mm	750 mm	1000 mm
LED strip lights monochrome constant current 8 mm								
	5 24 V	LED 3052	140	2700	4070		1750	970	600
				3000	4160		1780	990	620
				4000	4220		1800	1000	625
				5000	4260		1840	1020	630
	5 12 V	LED 2071	60	2700	1050		435	240	145
				3000	1090		455	245	150
				4000	1120		460	260	155
				5000	1130		470	260	160
		LED 2074	120	2700	2145		900	480	300
				3000	2250		940	505	310
				4000	2300		950	510	320
				5000	2300		955	515	320
	5 24 V	LED 3071	120	2700	1140		470	250	155
				3000	1190		490	265	160
				4000	1250		510	280	170
				5000	1250		510	280	170
		LED 3074		2700	2230		925	500	305
				3000	2270		940	505	310
				4000	2400		990	530	330
				5000	2400		990	530	320
		LED 3075	140	2700	3135		1295	695	425
				3000	3305		1365	735	450
				4000	3400		1400	750	460
				5000	3400		1400	750	460
		LED 3076	120	2700	4035		1650	895	550
				3000	4235		1745	340	575
				4000	4500		1810	990	600
				5000	43400		1810	990	600
LED strip lights multi-white, 8 mm, 3- wire								
	5 12 V	LED 2073	2 x 60	2700	1025		425	230	145
				5000	1075		445	245	150
		LED 2076	2 x 120	2700	2040		850	460	280
				5000	2110		875	470	290
	5 24 V	LED 3014	2 x 120	2700	-		-	-	-
				5000	-		-	-	-
		LED 3016		2700	-		-	-	-
				5000	-		-	-	-

Wattage	Luminous flux	Luminous efficiency	Section length	Colour rendering index CRI		Available length		Max. strip length (visual)	Max. strip length wattage-dependent m on the Loox5 driver per slot				
W/m	lm/m	lm/W	mm	R_a	R_9	5 m	50 m	m	20 W	40 W	60 W	90W	120 W*
									Current carrying capacity of strip light: 5 A				
19.2	1850	96	50	>90	>50	**833.76.378**	**833.76.382**	4.6	1.00	2.00	–	4.60	6.25
19.2	2015	105	50	>90	>50	**833.76.379**	**833.76.383**	4.6					
19.2	2050	107	50	>90	>50	**833.76.380**	**833.76.384**	4.6					
19.2	2100	109	50	>90	>50	**833.76.381**	**833.76.385**	4.6					
4.8	240	145	4.8	90	>50	**833.74.300**	**–**	6.0	4.10	8.30	12.50	–	–
4.8	245	150	4.8	90	>50	**833.74.301**	**–**	6.0					
4.8	260	155	4.8	90	>50	**833.74.302**	**–**	6.0					
4.8	260	160	4.8	90	>50	**833.74.303**	**–**	6.0					
9.6	920	96	25	90	>50	**833.74.308**	**–**	3.5	2.00	4.10	6.20	–	–
9.6	970	101	25	90	>50	**833.74.309**	**–**	3.5					
9.6	1000	104	25	90	>50	**833.74.310**	**–**	3.5					
9.6	1040	108	25	90	>50	**833.74.311**	**–**	3.5					
4.8	435	91	50	90	>50	**833.75.210**	**833.75.215**	9.50	4.10	8.30	18.70	25.00	50.00
4.8	460	96	50	90	>50	**833.75.211**	**833.75.216**	9.50					
4.8	480	100	50	90	>50	**833.75.212**	**833.75.217**	9.50					
4.8	480	100	50	90	>50	**833.75.213**	**833.75.218**	9.50					
9.6	830	86	50	90	>50	**833.75.240**	**833.75.245**	6.50	2.00	4.10	9.30	12.50	25.00
9.6	905	94	50	90	>50	**833.75.241**	**833.75.246**	6.50					
9.6	960	100	50	90	>50	**833.75.242**	**833.75.247**	6.50					
9.6	940	98	50	90	>50	**833.75.243**	**833.75.248**	6.50					
14.4	1430	99	50	90	>50	**833.75.200**	**833.75.204**	4.50	1.30	2.70	6.20	8.30	16.80
14.4	1500	104	50	90	>50	**833.75.201**	**833.75.205**	4.50					
14.4	1550	108	50	90	>50	**833.75.202**	**833.75.206**	4.50					
14.4	1570	109	50	90	>50	**833.75.203**	**833.75.207**	4.50					
19.2	1490	78	50	90	>50	**833.75.250**	**833.75.255**	5.00	1.00	2.00	4.60	6.20	12.40
19.2	1610	84	50	90	>50	**833.75.251**	**833.75.256**	5.00					
19.2	1670	87	50	90	>50	**833.75.252**	**833.75.257**	5.00					
19.2	1700	89	50	90	>50	**833.75.253**	**833.75.258**	5.00					
									Current carrying capacity of strip light: 5 A				
4.8	425	88	50	>90	>50	**833.74.352**	**–**	4.50	4.10	8.30	12.50	–	–
4.8	465	96	50	>90	>50			4.50					
9.6	875	91	25	>90	>50	**833.74.318**	**–**	3.00	2.00	4.10	6.20	–	–
9.6	940	97	25	>90	>50			3.00					
9.6	866	88	50	90	>50	**833.72.270**	**833.72.271**	4.00	–	–	–	–	–
9.6	950	96	50	90	>50			4.00					
14.4	1296	91	50	90	>50	**833.77.280**	**833.77.281**	3.50	–	–	–	–	–
14.4	1409	97	50	90	>50			3.50					

* 240 W driver (2 slots with 120 W each)

LED strip lights

Technical data, COB monochrome 8 mm / multi-white 8 mm / RGB 10 mm

	Voltage V	Model Häfele Loox5	Quantity LEDs/m	Colour temperature K	Illuminance lx Distance 250 mm	500 mm	750 mm	1000 mm
LED silicone strip lights monochrome, 8 mm (4.8 x 10 mm silicone sleeve)								
	5 24 V	LED 3046	120	2700	1855		790	435	270
				3000	1895		805	445	275
				4000	1960		840	465	290
				5000	2020		860	475	295

	Voltage V	Model Häfele Loox5	Quantity LEDs/m	Colour temperature K	Illuminance lx Distance 250 mm	500 mm	750 mm	1000 mm
LED silicone strip lights monochrome (4 x 10 mm silicone sleeve)								
	5 24 V	LED 3099	120	2700	820		190	85	50
				3000	840		195	90	50
				4000	845		205	100	55
				5000	850		215	100	55

	Voltage V	Model Häfele Loox5	Quantity LEDs/m	Colour temperature K	Illuminance lx Distance 250 mm	500 mm	750 mm	1000 mm
LED strip lights RGB, 10 mm								
	5 24 V	LED 3080	120	RGB	–		–	–	–

Wattage	Luminous flux	Luminous efficiency	Section length	Colour rendering index CRI		Available length		Max. strip length (visual)	Max. strip length wattage-dependent m on the Loox5 driver per slot				
W/m	lm/m	lm/W	mm	R_a	R_9	5 m	50 m	m	20 W	40 W	60 W	90W	120 W*
									Current carrying capacity of strip light: 5 A				
9.6	820	85	50	>90	>50	**833.76.342**	–	8.0	2.00	4.10	–	9.30	12.5
9.6	870	91	50	>90	>50	**833.76.343**	–	8.0					
9.6	900	94	50	>90	>50	**833.76.344**	–	8.0					
9.6	930	97	50	>90	>50	**833.76.345**	–	8.0					

Wattage	Luminous flux	Luminous efficiency	Section length	Colour rendering index CRI		Available length		Max. strip length (visual)	Max. strip length wattage-dependent m on the Loox5 driver per slot				
W/m	lm/m	lm/W	mm	R_a	R_9	3 m	5 m	m	20 W	40 W	60 W	90W	120 W*
									Current carrying capacity of strip light: 5 A				
9.6	500	52	25	90	>50	**833.75.260**	**833.75.265**	3.0	2.0	4.25	–	9.375	12.5
9.6	520	54	25	90	>50	**833.75.261**	**833.75.266**	3.0					
9.6	540	56	25	90	>50	**833.75.262**	**833.75.267**	3.0					
9.6	540	56	25	90	>50	**833.75.263**	**833.75.268**	3.0					

Wattage	Luminous flux	Luminous efficiency	Section length	Colour rendering index CRI		Available length		Max. strip length (visual)	Max. strip length wattage-dependent m on the Loox5 driver per slot				
W/m	lm/m	lm/W	mm	R_a	R_9	5 m	50 m	m	20 W	40 W	60 W	90W	120 W*
									Current carrying capacity of strip light: 3.5 A				
9.6	530	51	50	–	–	**833.76.386**	–	6.5	2.00	4.10	–	8.75	8.75

* 240 W driver (2 slots with 120 W each)
** Product-specific restriction)

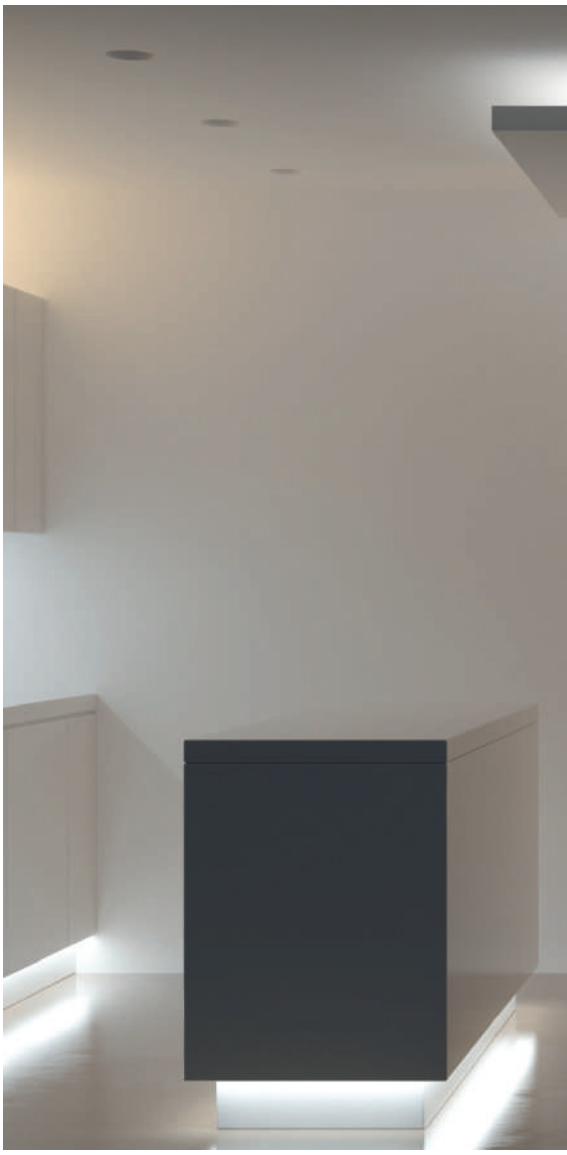
Light shapes rooms.

Light in furniture is more than just accessories.

Light in furniture is no longer an accessory which can be retrofitted later. Today, light has essential and imperative comfort functions in furniture.
Contemporary furniture planning incorporates light as a focus right from the beginning in order to achieve the best possible result for customers.

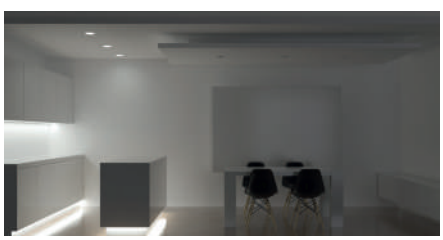
Light changes spaces.

The interplay of light in rooms and light in furniture promotes a feeling of well-being.



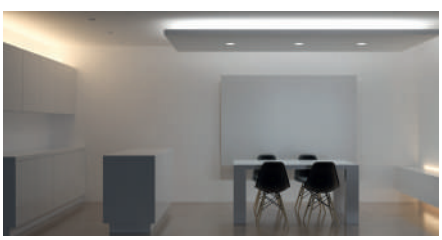
Cooking.

Bright, neutral white light makes for a pleasant illumination of the important work spaces and ensures the proper reflection of the colour of food and products.



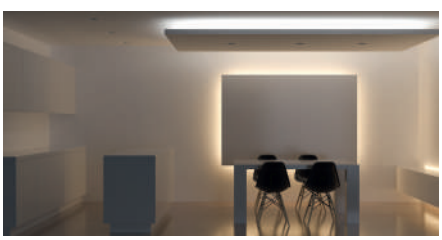
Eating.

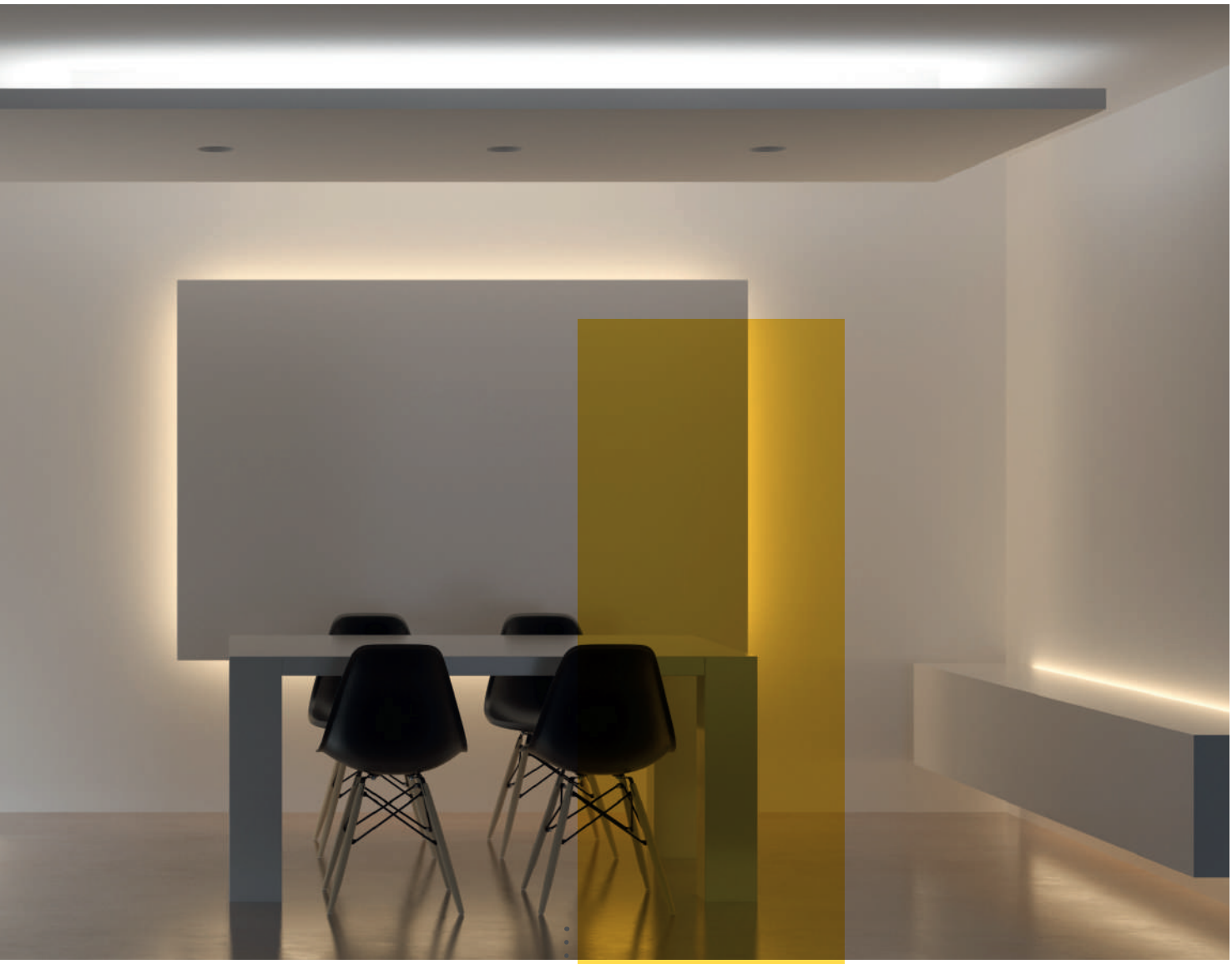
The combination of direct, flat light for a perfect illumination of the dining table, supplemented with indirect, warm effect lights on ceilings and walls creates an atmospheric ambience.



Relaxation.

The interaction of areas of light and horizons created by light creates a comfortable and cozy atmosphere.





Bright cool light promotes concentration, warm and dimmed light promotes relaxation.

Light and intensity.

When lighting a room, using a combination of several light sources is critical.

In the 1950s, Richard Kelly, a pioneer of lighting design, already differentiated between light to see – ambient luminescence, focal glow – the illumination of an object or area, and play of brilliants – in which the light itself is the object to observe.

Depending on the purpose for the lighting plan of a room and specific areas, task light is used. To create a specific ambiance ambient light is used.

Task light.

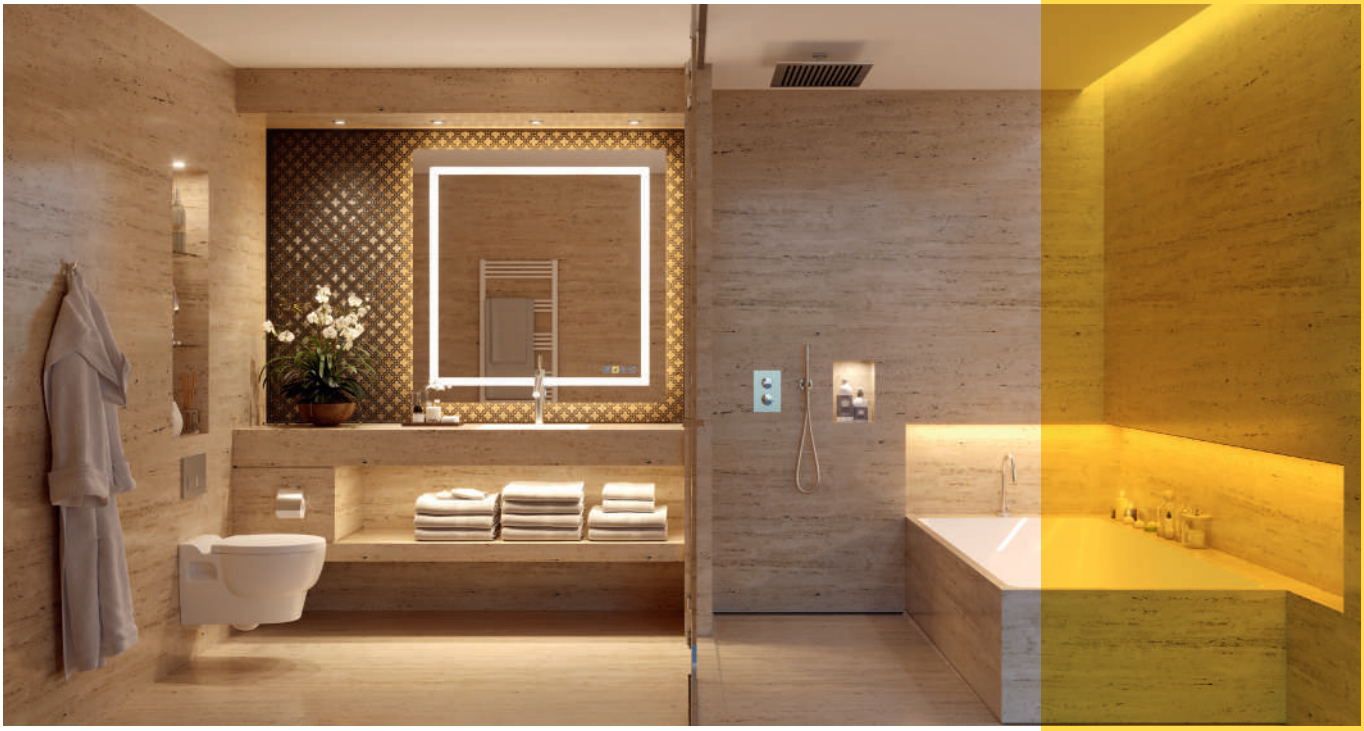
For example, the lighting need in a home office can differ and depends on the location of the desk as well as the influx of daylight. When work is done on computer or tablet a glare-free light source is required. Since the screen is the work area, a backlight can be sufficient. However, drawing or writing require a well lit work surface.

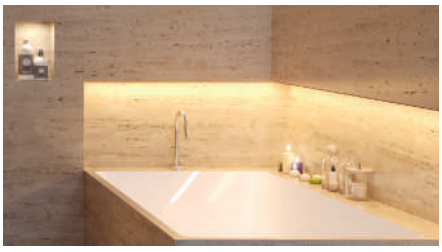
Ambient light.

To create an atmospheric ambience, the room light can also be used as indirect lighting in the furniture. Ambient light provides less illumination and serves to create an appealing environment. The light source is often hidden, for example it can be embedded in shelving or behind moldings. It is important that ambient light beams do not create brightly lit surfaces or produce sharp edges.

Light evokes emotions.

Light situations trigger associations:
romantic, comfortable, relaxing and cold.





Staging.

Spotlights make the illuminated objects on shelves and showcases the focus. And wall wash light makes wall structures visible.

Highlighting.

Highlighting functional areas with even, bright light is a sensible addition to the general room light.

Setting accents.

The Loox lighting system offers many possibilities to set accents in a room. With the appropriate light composition corners, edges and surfaces can be dramatized.

With a smart lighting plan specific moods can be created in the living environment. The Häfele Loox system can turn a purposefully designed bathroom into a spa. Edge lighting creates an artificial horizon, dimmable spotlights create a candlelight atmosphere. Warm light creates a mood simulating a sunset.

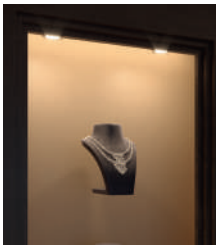
Light and colour.

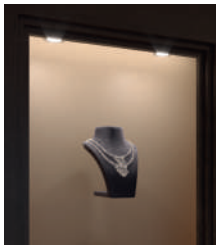
Light makes colour visible.

Light is made up of electromagnetic waves which only become visible to the human eye through reflection on objects. A red object reflects only the red colour. The other colours are absorbed. All light sources are tested and measured based on the accuracy of their colour reproduction, the so-called colour rendering index (CRI). The higher the CRI, the higher the quality of colour reproduction.

Warm light. Cool light.

The colour of the light, also referred to as colour temperature, controls our state of well-being. Light with a high blue component has an invigorating effect on the body. Just like the cool fresh light of an early morning. By comparison, strong red and yellow-coloured light has a relaxing effect and evokes a state of rest. Just like the warm glow in the late afternoon or a candle.





Consistent colour quality and performance.

An important factor for new technologies is the reliability in use.

Häfele has set high standards for the selection of materials, which are continually tested and certified internationally. Setting a narrow binning is one of them. All LEDs are tested and sorted to specified quality criteria after production. Häfele selects the highest quality class LEDs for maximum life time, energy efficiency and to ensure after market replacement quality.

Light with effect.

Every room comes to life with light and shadows.

Linear light.

Linear illumination is created with LED strip lights. Inside cabinets and shelves, on work surfaces or enclosures of furniture, LED strip lights provide uniform light with a broad area of illumination.

Directional light.

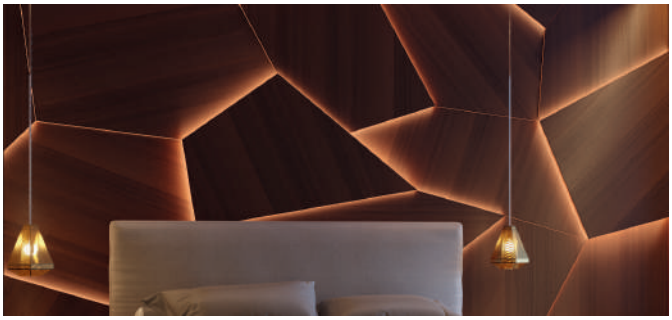
Narrow beam Loox spotlights can create directional lighting effects to highlight specific objects. With surface mounted or built-in spotlights in a row it is possible to achieve flat surface illumination of specific areas. A special effect is created by overlapping cones of light.

Linear illumination can be used to create horizons. With direct light objects can be partially emphasized. Wall wash light can highlight and reinforce structures (stone structures, relief wallpapers).

Light and surfaces.

Depending on the material and structure a surface reacts differently to light. Light is partially absorbed, a part is reflected and depending on the surface it is scattered. With translucent or transmissive materials, the light can also shine through the body.

Depending on the material and structure a surface reacts differently to light.



Dark surfaces.

Dark materials absorb light, so it is necessary to use stronger light. However, too much light destroys the ambiance and comfort.

Bright surfaces.

A bright floor or bright materials reflect the light much better than dark materials. A brightly designed space therefore requires less overall light. Extra effect lighting adds freshness and a feeling of spaciousness to the room.

Light and control.

A Smart Home also includes the smart control of different lighting scenarios inside the building.

The Häfele Loox system offers several solutions for controlling lights; from the direct control via simple switching points to the remote control of more complex lighting scenarios.

In addition to the lighting, digital solutions can also be used to centrally operate and control the stereo, television, heating, alarm system and more.

Remote control of light.

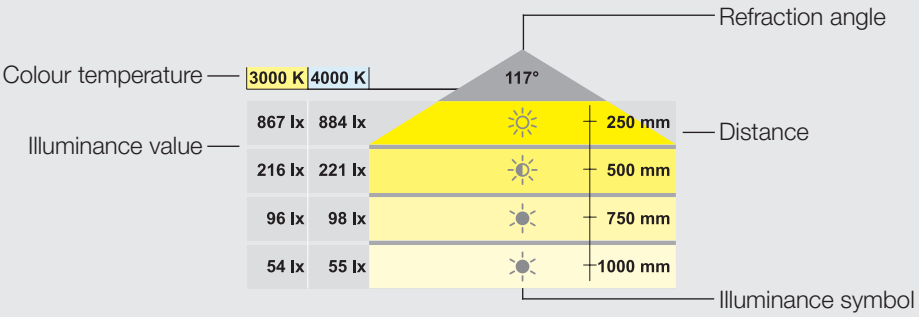
Especially important is the control of light scenarios in multi-functional rooms. Depending on the application remote controls can be used for easy control of several light sources, from multi-white lights to coloured RGB lights.

Control light (and more) centrally.

An app connects and centrally controls all installed light components and allows the design of light effects individually with a smartphone or tablet. In this way multiple scenarios can be saved and programmed, or simply retrieved with just by finger tip.

Light effects and lighting technology

Cone of light



	>500 lx
	150–500 lx
	<150 lx

Note:
The illuminance symbol always represents the best value of all colour temperatures and is meant to be for quick guidance only. Please note the specific values of the individual colour temperatures and the refraction angle before ordering!

Recommendation for illumination of interior rooms

Interior room type	Illuminance in Lux on		Colour temperature in K
	Working height: 750 mm	Floor-high	
Kitchens, offices	500	150	2700–4000
Dining area	300	100	2700–4000
Store fixtures, galleries	300–500	150	4000–6500
Bedroom, living room	200–300	100	2700–4000
Bathroom	200–450	150	3500–4000
Storage room	200	100	4000–5000
Traffic areas	–	100	4000–5000
Orientation light	–	25–50	4000–5000

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Test symbols and symbols

Product features

Dimmable

RGB light

Multi-white light

Bluetooth®: industry standard for data transmission between electronic devices by radio over a short distance. The Bluetooth® word mark and logos are registered trademarks of Bluetooth SIG, Inc., and Häfele uses these marks under licence. Other trademarks and names are the propriety of their respective owners.

Certifications / test marks

CE — Confirmation from the manufacturer that the product complies with the product-specific applicable European norms and standards. Häfele will not use the certification in advertising.

RoHS — Restriction of Hazardous Substances (EU directive 2011/65/EU). Häfele will not use the certification in advertising.

UKCA — UK Conformity Accessed (United Kingdom)

c UL us — Underwriters Laboratories, correspondence with the national standards in the USA and Canada

VI — Energy efficiency standard VI of the United States Department of Energy

PS E — Product Safety Electrical Appliance and Material Safety Law (for Japan)

Regulatory Compliance Mark (for Australia)

China Compulsory Certification

EAC — Eurasian Conformity, for CU countries (Russia, Kazakhstan, Belarus)

Bureau of Indian Standards (India)

Korea Certification Mark

CMIM (Morocco)

R36733 — Bureau of Standards, Metrology & Inspection BSMI (for Taiwan)

Thai Industrial Standards Institute TISI

10 — European Norms Electrical Certification, with specification of the testing laboratory (one of 18 European national institutes)

TÜV test symbol

VDE test symbol

Declaration of Conformity for telecommunication and radio equipment (USA)

Telecommunication and Radio Equipment (Japan)

Protection classes

Protection class II

Protection class III

Degrees of protection

Lights which do not specify the degree of protection have IP20 in accordance with DIN 40050.

IP20	Protection against solid foreign bodies (Ø >12.5 mm), protection against splash water on all sides
IP44	Protection against solid foreign bodies (Ø >1 mm), protection against splash water on all sides
IP45	Protection against solid objects (Ø >1 mm), protection against water jets
IP54	Dust protected, protection against splash water on all sides
IP65	Dustproof, protection from water spray (jet) from any angle.
IP67	Dustproof, protection against temporary immersion in water

IP20 / IP44 — IP44 after installation

IP20 / IP45 — IP45 after installation

IP20 / IP65 — IP65 after installation

Safety symbols

M M — Installation permitted on or in furniture whose ignition properties are unknown.

110 — Max. surface temperature in case of fault

Lights to be used indoors only. Not to be used outdoors!

Do not use components that impede thermal radiation.

Waste of Electrical and Electronic Equipment. Do not dispose of in residential waste!

Driver, converts alternating current to direct current

Voltage supply

SELV — Safety Extra Low Voltage

Independent operating unit for use outside of light without additional cover.

Short-circuit proof with safety isolation

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Information

Technical terms

Binning	During industrial manufacture, LEDs differ from each other with regard to colour, luminous flux (brightness) and forward voltage. In order to achieve consistent light quality with the same brightness level and a uniform light colour, they are therefore sorted according to colour, luminous flux and forward voltage and separated into bins (“containers”) during manufacture. This sorting process is known as Binning. Häfele exclusively uses bins with a high degree of brightness in order to achieve high efficiency.
COB	see **LED**
Colour rendering index CRI	The colour rendering index is a parameter that can be used to compare the colour rendering quality of light sources at the same colour temperature. The higher the value, the better the colour rendering. A value of 100 corresponds to the colour rendering of daylight.
Constant current technology	The same current flows through each LED. This means that all LEDs have the same brightness, and a **drop in luminous flux** is eliminated. This increases the maximum visual length of the strip lights.
Drop in luminous flux	The brightness of the LEDs on LED strip lights decreases with the length of the strip light due to the increasing resistance of the copper line. A drop in luminous flux from the first to the last LED of up to 30% is imperceptible to the human eye. Häfele therefore specifies a **maximum strip light length** for this visual value. Generally, it is possible to operate strip lights with longer lengths, but a difference in brightness will be visible. Exception: the LEDs of the strip lights with constant current technology (LED 2077/3050/3051/3052) are almost identical.
Energy efficiency class	The European Union's energy consumption labelling was determined on classes A to G as of 1 September 2021. The relevant regulation is the EU 2019/2015.
Human Centric Lighting (Time of day-dependent light colours)	 Light influences well-being and the productivity of the users. One of the goals of light planning is therefore to adapt the brightness and colour temperature to the needs of the people. It is about the Human Centric Lighting planning concept. As well as the function of the room, the time of day of use plays an important part. The rule of thumb for rooms with a working function or for early times of day is: cold and bright light supports high concentration and productivity (the production of melatonin in the body is suppressed). Well-being areas or a later time of day require warmer, dimmed light to support the relaxation process of the users. The following Häfele products are suitable for the requirements of Human Centric Lighting: > Multi-white lights make it possible to change the colour temperature > Häfele Connect Mesh makes it possible to control the colour of multi-white lights or design day-dependent light scenes with monochrome lights with different colour temperatures.
Illuminance	The illuminance is the **luminous flux** (lm) in relation to a surface (m^2) and it is indicated in Lux (lx). It is used to measure the brightness with which a surface is illuminated.
LED	A light-emitting diode (LED) is a semi-conductor element that emits light when electricity passes through it. This semi-conductor element consists of a crystal that is attached to a metal holder and encapsulated in a phosphor layer which converts the light that is generated into white light. COB LED’s generate extensive light. This is achieved by arranging several small LEDs in close proximity to each other and covering them with a shared phosphor layer. COD LEDs are used in point lights or linear lights (strip lights).

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Information

Technical terms

Life time

Specified in operating hours. The life time mainly depends on the warming of the products. The hotter the environment, the shorter the life time. The replacement rate in years is calculated from the total life time and the average operating time per annum. The following table can be used as a planning aid. The specified life time relates to L70/B50.

Indoor use	Annual operating time (EN 15193) hours	Replacement rate Years	Life time installation Hours
Office	2,500	20	50,000
Education	2,000	25	50,000
Hospital	5,000	10	50,000
Hotel	5,000	10	50,000
Restaurant	2,500	10	25,000
Shop	5,000	10	50,000

Life time Lx/By

The service life is specified in hours. L represents the proportion of the original luminous flux that is still radiated by the light after the service life. B represents the failure rate in percent (not a complete failure, but the proportion of lights which drop below the value in L).

Example of life time L80/B10 >50000 h:
At the end of the life time of at least 50,000 hours, the light still radiates 80 % of its original luminous flux. Of 10 lights of the same type, 1 light drops below this amount of luminous flux.

Light colour and colour temperature

Häfele makes a distinction between 3 light colours:
Monochrome = single-colour white
Multi-white = changeable white
RGB = multicoloured
A combination is also possible: RGBW = coloured or white (the monochrome LEDs and RGB LEDs are actuated separately)

The colour temperature is a specification of the colour appearance of a monochrome light source and is measured in Kelvin (K). The lower the colour temperature, the warmer (redder) the light colour; the higher the colour temperature, the cooler (bluer) the light colour. Monochrome light sources with a colour temperature below 3400 K are considered “warm white” by Häfele, monochrome light sources with a colour temperature between 3400 K and 5700 K are considered “cool white”. Above 5700 K, the light colour is referred to as “daylight white”.

Light permeability

Ratio of transmitted light to incidental light. An ideal transparent body has light permeability of 100 %.

Lumen

See **luminous flux**

Luminous efficiency

The luminous efficacy is the ratio of the luminous flux and the wattage absorbed.
It is used to measure the operating efficiency of the light source.
It is indicated in Lumen per Watt (lm/W).

Luminous flux

It is indicated in Lumen (lm). The luminous flux indicates the light output, i.e. the quantity of light a source emits. The value may be subject to measurement and production-related fluctuations of ± 10 %.

Lux

See **illuminance**

Monochrome

Häfele describes white light emitted by a single-coloured **LED** as monochrome light.
Physically, the white light consists of different wavelengths, but to the viewer it looks like monochrome white light. Monochrome lights are available in different **light colours/colour temperatures** from warm white to daylight white.
Single-colour red, blue or green light emitted by a single LED is also referred to as monochrome, and physically consists of just one wavelength or a very narrow spectrum of wavelengths.

Multi-white

The multi-white light colour is mixed from two monochrome light colours (e.g. warm white and daylight white) almost seamlessly with Häfele Connect Mesh.
Note: if only one wire of the multi-white adapter is connected to a standard 6-way distributor with switching function, the light can be operated as a monochrome light with just one light colour (e.g. warm white or cool white). No other Connect Mesh component is then required, apart from the adapter.

Refraction angle

The specified beam angle (half-value angle) defines the idealised cone-shaped area in which the illuminance is at least 50 %. The full illuminance is achieved at the centre of the cone.

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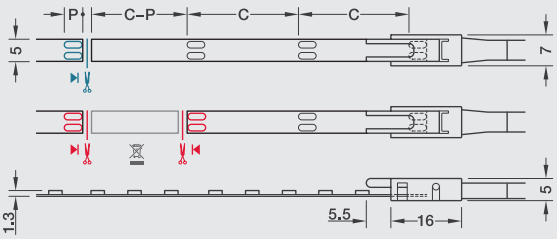
RGB	The light colour RGB is the abbreviation for red, green and blue. With Häfele Connect Mesh,hundreds of colour combinations are mixed from the three primary colours. Note: if only one wire of the multi-white adapter is connected to a standard 6-way distributor with switching function, the light can be operated as a monochrome light with just one light colour (e.g. red, green or blue). Of course, 2 wires can also be connected in order to mix the colours. No other Connect Mesh component is required, apart from the adapter.
RoHS – Lead in Loox products	Loox Products by Häfele are lead-free and adhere to the RoHS guidelines. RoHS is part of CE conformity. All Loox products are CE compliant. Häfele does not advertise the CE conformity in its catalogues, since only CE compliant products are allowed to be offered. The declaration of conformity is available online at www.hafele.com
Shortening or connecting LED strip lights	 **C = cut length,** **P = length of contact surface** **Shortening Loox5 LED strip lights (blue)** One contact side remains with the offcut; this can be re-used **Connecting Loox5 LED strip lights (red)** Two contact sides are required
Transmittance	See light permeability

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Technical questions

1. Illuminating

If the illuminance of an LED strip light is measured with or without a diffuser?	The illuminance is measured at the LED strip light without a diffuser and without a profile, since the profile and the diffusers can be variably combined with the strip lights. With diffusers the light permeability is specified in order to be able to estimate the loss. In case of doubt, we recommend carrying out a test to check out the effect of profiles.
How do I clean an LED strip light?	LED strip lights without a silicone sleeve do not require cleaning. Silicone strip lights can be wiped down with a damp antistatic cloth. Scouring agents and aggressive cleaners can destroy the surface and attack the LEDs.
Can an LED flexible strip light be used behind acrylic glass?	This may be so, but the acrylic glass amplifies the minimal colour differences between the LEDs (binning) many times, making the smallest colour deviations more visible.
How is consistent bulb light colour guaranteed?	Häfele makes high demands on the selection of the materials. All Loox5 strip lights contain high-quality and long-lasting LEDs from Samsung and Lumileds. Setting very tight quality specifications ensures not only luminous flux and breakdown voltage, but also consistent light colour for follow-up purchases.
Can Loox lights be used in RVs/boats/cars?	Voltage fluctuations may occur in the on-board power supply. Loox/Loox5 products are designed to have a voltage tolerance of ±5 % in relation to the nominal voltage of 12 V and 24 V. Should higher voltages occur for extended or even brief periods, a voltage stabiliser/smoother must be used in addition on site in order to prevent dangerous overheating or damage to the light. Special LED strip lights with constant current control (e.g. LED 2077) from our Loox5 product range can be used without voltage stabiliser/smoother. The requirements with regard to electromagnetic compatibility must also be observed during installation. These are defined in Regulation No. 10 of the Economic Commission for Europe of the United Nations (UN/ECE R10). Our Loox/Loox5 products are currently not reviewed for compliance with this regulation.
Can I use Loox in saunas and bathrooms?	Yes. This applies to all lights which provide protection of at least IP44 (better IP67) when installed. This is sufficient for many applications. LED silicone strip lights are IP44 protected as well. However, it must be ensured that the driver and mains lead are dry. Attention must also be paid to the maximum ambient temperature.

2. Extending

What expansion options are possible?	The Loox system can be extended with charging stations (USB and inductive) and sound systems (e.g. exciter speakers).
What is the best way to use an exciter speaker?	Can be installed on glass and mirror glass (3–6 mm each), acrylic glass (3 mm), chipboard (10–20 mm) and mineral composite boards.

3. Switching

How can sensor switch malfunctions be avoided (Ø 12 mm)?	Check for correct switch installation. The TOP lettering on the switch must point upwards in the installation situation.
Can Loox lights be operated using multiple switches?	Yes: Up to three switches on the 6-way distributor with multi-switching function (configurable in three operating modes) or several switches on a multi switch box (up to three switches on a single box; up to five switches on two cascaded boxes).
How long may the lead between the driver and the device be?	The maximum lead length from the Loox5 driver to the device is 10 m. Long cable lengths in combination with large loads (strip light lengths) can result in voltage losses in the cable. These lead to visible loss of brightness in the lights. The illuminance listed with the lights has been determined with the rated output voltage of the driver. (12 V or 24 V).
Can you use 12 V and 24 V lights on the same distributor?	Yes, please use the respective converter.

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4. Networking

Is Connect Mesh compatible with previous Loox generations?	Yes, please use appropriate adapters. Multi-white lights from the previous Loox generation can also be connected to the Häfele Connect Mesh 6-way distributor via 9-way adapters and Loox5/Loox adapters.
What is meant by standalone mode?	Standalone mode is the operation mode in which the remote control or wall switch can create and operate a pre-configured Bluetooth Mesh network without using the Connect Mesh App. The only restriction is the definition of one colour system (monochrome, multi-white or RGB). This means that in contrast to operation with the Connect Mesh App, mixed operation of the colour systems is not possible.
Can I back up my network?	Yes, that is possible and recommended. The network can be backed up using various options via the export function in the Connect Mesh App. For more information, see the operating instructions and the help in the app.
Can I share the network with other users?	Yes, that is possible. The export/import function within the Connect Mesh app is used for this purpose. For more information, see the operating instructions and the help in the app.
Can you switch off a light scene?	A light scene represents a defined condition. In this way, a light scene is always activated (or switched on). Switching off the light requires another defined status with switched off lights. This can be set via the scene or by means of group switching.
What is the service life of the battery?	The life time depends on the type of use. Depending on the device, between 1,800 and 3,600 duty cycles or approx. 1 year are possible.
Where can you read off the battery status?	The battery status can be queried for each individual device in the Connect Mesh app.
How does the reset of Connect Mesh components work?	The majority of components can be reset using the reset button (hold down for 8 seconds), except 850.00.046 see operating instructions. Flashing of the LED indicates a successful reset.
2-channel interface: can consumers be dimmed?	The interface is exclusively for on/off switching functions.
Why is the LED of the Connect Mesh 6-way distributor continuously on?	The distributor is coupled and ready for use.
Why is the LED of the Connect Mesh 6-way distributor flashing?	The distributor is ready for coupling (provisioning).
What is the range of my Connect Mesh network?	The range specification applies if there is unobstructed visibility. Obstacles and electromagnetic interference sources can reduce the range. The Bluetooth range of a single device is up to 10 m. The range can be significantly increased in the network composite, since the individual Mesh devices communicate with each other in a multidirectional way.

5. Distributing

Can multiple distributors be cascaded?	Yes, the individual limits are the output of the driver and the maximum lead length of 10 m from the driver to the light/charging station.
Can multiple 6-way distributors with a switching function be cascaded?	Yes, and switches can also be used. This makes the switch of the first box the master switch. Note: only the last level in a cascade can contain dimmers. Dimmers at a higher level would interfere with the switching function of the downstream distributors.
How many Watts does a 6-way distributor use?	A 6-way distributor with switching function has power consumption of 0.1 W. A Häfele Connect Mesh 6-way distributor has power consumption of 0.5 W. No power consumption has to be taken into consideration for distributors without a switching function.
What is the life time of the products in permanent operation?	Loox5 drivers >50,000 hrs. at a maximum ambient temperature (40 °C/45 °C), wall plug drivers 30,000 hrs. at an ambient temperature of max. 40 °C. Provide for sufficient air supply and circulation at the mounting location of the driver. At an ambient temperature <30° C, the life time is doubled. Loox5 LED strip lights >50,000 hrs. at an ambient temperature of max. 45 °C. Cooling with an aluminium profile is recommended from 9.6 W/m.

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Technical questions

What does AWG mean in the specification of cables?

AWG stands for American Wire Gauge.
It is the coding for wire diameters in electrical leads that are mainly used in North America. This identifies the cross-section of wires in electrical leads that consist of strands and wire.

What is the current carrying capacity of a cable?

Häfele allows the following current carrying capacity and wattage:

Type of cable	24 AWG		22 AWG		20 AWG		18 AWG	
Current carrying capacity	1,5 A		2,5 A		3,5 A		5,0 A	
Voltage	12 V	24 V	12 V	24 V	12 V	24 V	12 V	24 V
Wattage	18 W	36 W	30 W	60 W	42 W	84 W	60 W	120 W

The type of cable is imprinted on the coating of the cable.

6. Supplying

May I use drivers from other manufacturers?

In order to ensure the safety and functionality of the installation, only Loox drivers or drivers that have been explicitly approved by Häfele may be used. If a qualified electrician installs the system, Loox may also be connected and coupled with on-site electrical equipment.
However, we explicitly point out that these tasks must be performed by a qualified electrician.

Why do the lights have to be plugged in first before the driver is connected to the mains voltage via the mains lead?

If the driver is connected to the mains voltage first, electrical power is output at the secondary side, which leads to overvoltage and therefore damage to the lights if they are connected.

Why does my LED light flash?

Flashing is a sign of (under or) overloading.
Use a driver with higher power or reduce the number of devices.

How do I create an inspection opening in the cabinet?

Tip: install the drivers/distributors in the furniture plinth or above the cabinet top (with cover). Provide bases or cabinet tops with an opening and cover them with an additional removable positive-fitting shelf. Only the shelf needs to be removed for inspecting.

Other answers to technical questions.

www.hafele.com

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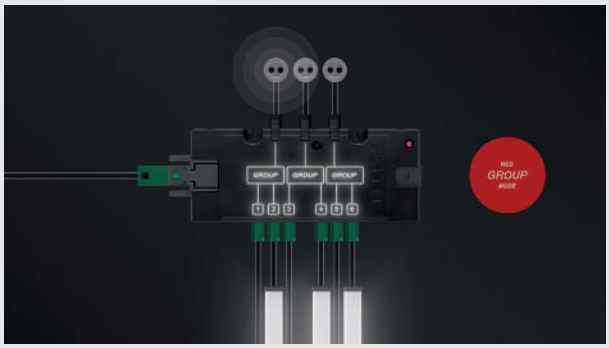
Documentation on the Internet

Video guides

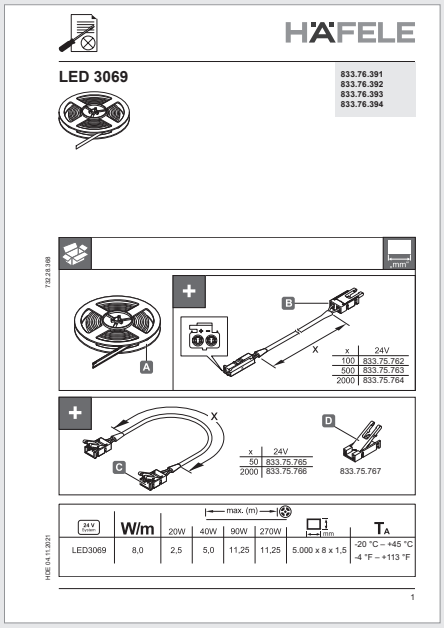
Language neutral for all markets

Language-independent videos are available for the Loox radio remote controls and other selected products at **www.haefele.de** next to the item.



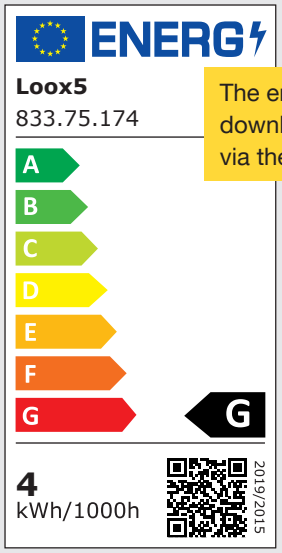
Installation instructions

Language-neutral installation instructions are available for all Häfele Loox lighting systems.



Energy label

The European Union's energy consumption labelling was determined on classes A to G on 1 September 2021. The relevant regulation is EU 2019/2015.



The energy label is available for downloading at **www.haefele.de** or via the EPREL database.

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