



Extending

Charging stations

ESC 2002 inductive charging station

> Page 81

ESC 2001 USB charging station, modular

> Page 81



Sound systems

105 sound system

> Page 82

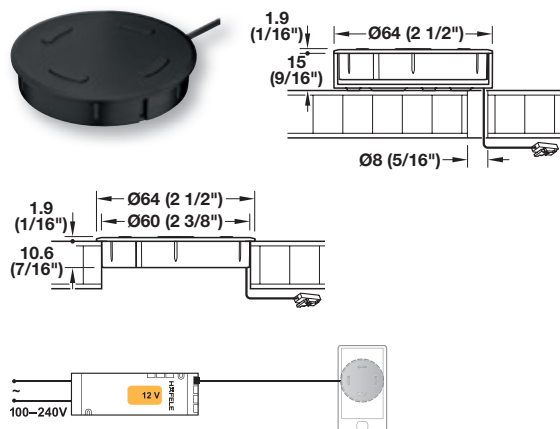
420 E sound system, exciter speakers

> Page 83



Charging stations

Häfele Loox ESC 2002 inductive charging station - for 12 V system



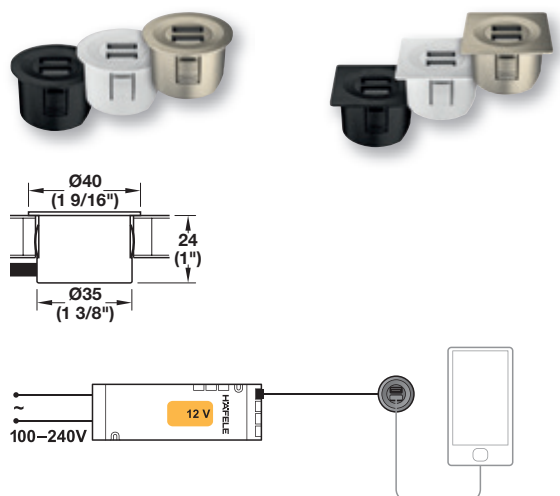
- > Material/Color: Plastic, matt black
- > Diameter: 64 mm (2 1/2")
- > Charging current: 1 A
- > Output voltage: 5 V
- > Standby power consumption: 0.3 W
- > Power consumption: Max. 10 W
- > Standard: WPC compatible
- > Supplied with: 1 inductive charging station with mounting ring and 2000 mm (78 3/4") lead

Item No.
833.73.776

! Drill hole Ø for plug: 8 mm (5/16")

12 V 5 12 V Loox5 12 V driver see page 124
Please order 6-piece adapter set 833.95.753 separately, see page 116.

Häfele Loox ESC 2001 USB charging station, modular - for 12 V system



- > Material: Plastic, matt
- > Output voltage: 5 V
- > Output current: 2 A
- > Power consumption: Max. 15 W
- > Drill hole Ø: 35 mm (1 3/8")
- > Mounting: For mounting in drilled hole, for clamp fixing
- > Supplied with: 1 USB charging station

Color	Round	Straight-edged
Black	833.73.751	833.73.754
Nickel-plated	833.73.753	833.73.756
White	833.73.752	833.73.755

+ Lead with snap-in connector

- > Monochrome (2-wire 24 AWG)

Length	Item No.
100 (39 3/8")	833.95.789
2000 (78 3/4")	833.95.788

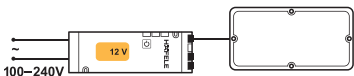
! Please order lead separately.

12 V 5 12 V Loox5 12 V driver see page 124

Sound systems



105 sound system



Sound system (mono with integrated exciter speaker)

- > Material/Color: Plastic, black
- > L x W x H: 140 x 66 x 25 mm (5 1/2" x 2 5/8" x 1")
- > Power consumption: Operation: 7 W, standby: <0.3 W
- > Music wattage: 5 W (RMS)
- > Reception range: Max. 10,000 mm (32' 9 11/16")
- > Mounting: For screw fixing
- > Supplied with: 1 Bluetooth® receiver and 2000 mm (78 3/4") lead

	Item No.
	822.65.000

⚠ Please observe the installation regulations for bathrooms.

🔌 12 V 5 12 V Loox5 12 V driver see page 124
Please order 6-piece adapter set 833.95.753 separately, see page 116.

Sound systems



ILLUMINATING



EXTENDING



SWITCHING



NETWORKING



DISTRIBUTING



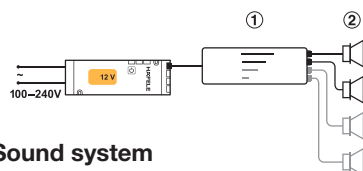
SUPPLYING



420 E sound system - with speakers



> App for individual settings available on request



① Sound system

② Exciter speakers



Please order extension lead 2000 mm (78 3/4") 833.73.766 for exciter speaker separately.

- > Material/Color: Plastic, black
- > L x W x H: 140 x 45 x 15 mm (5 1/2" x 1 3/4" x 9/16")
- > Power consumption: Operation with 2 exciter speakers: Max. 19 W, operation with 4 exciter speakers: Max. 32 W, standby: <0.3 W
- > Music wattage: Operation with 2 or 4 exciter speakers: 2 x 10 W (RMS)
- > Reception range: Max. 10 m (32' 9 11/16")
- > Mounting: For screw fixing
- > Supplied with: 1 Bluetooth® receiver with 2000 mm (78 3/4") lead and 4 connections for exciter speakers, incl. 2 exciter speakers

Item No.

822.65.034



Please observe the installation regulations for bathrooms. Can be installed on glass and mirror glass 3–6 mm (1/8"–1/4"), acrylic glass 3 mm (1/8"), chipboard 10–20 mm (3/8"–3/4") and mineral composite boards.



12 V 5 12 V

Loox5 12 V driver see page 124

Please order 6-piece adapter set 833.95.753 separately, see page 116.



Exciter speaker

- > Dimensions: Ø 65 x 22 mm (2 9/16" x 7/8")
- > Wattage: Rated/music load capacity 4/15 W
- > Mounting: For screw fixing or for glue fixing
- > Supplied with: 1 exciter speaker with 1 m (39 3/8") speaker lead

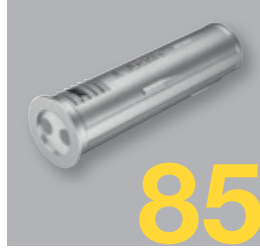
Item No.

822.65.039

Switching

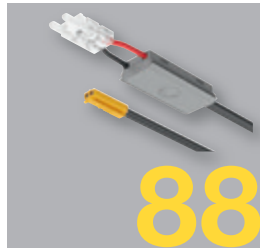
Sensor switches

Sensor switch	> Page 85
Door sensor switch	> Page 85
Motion detector	> Page 85
Dimmer	> Page 86
Capacitive switch/dimmer	> Page 86
Sensor switch, surface mounted	> Page 87
Door sensor switch, surface mounted	> Page 87
Dimmer, surface mounted	> Page 87



Sensor switch for aluminum profiles

Dimmer	> Page 88
Motion detector	> Page 88



Mechanical switches

Universal door contact switch	> Page 89
Door contact switch	> Page 89
Push switch	> Page 89
Rocker switch	> Page 90
Housing for switch, surface mounted	> Page 90



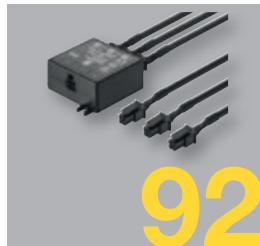
Dimmer interface

Dimmer interface 0–10 V, modular	> Page 91
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Multi-switch box, multi-driver box

Multi-switch box	> Page 92
Multi-driver box	> Page 92



Symbol overview

Sensor switch

Touch-Free, soft on/off switching



Door sensor switch

Soft on/off switching



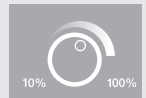
Motion detector

Automatic on/off switching



Dimmer

Soft on/off switching and dimming



Capacitive switch/dimmer

Soft 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



Push switch

On/off switching



Rocker switch

On/off switching

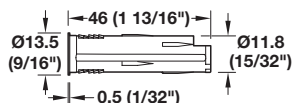


Sensor switches



Häfele Loox sensor switch, modular - touch-free, soft on/off switching

TOUCH-FREE



- > Material/Color: Plastic, silver colored
- > Degree of protection: IP20
- > Sensor range: 0–80 mm (0–3 1/8")
- > Power consumption: ≤0.3 W
- > Drill hole Ø: 12 mm (1/2")
- > Supplied with: 1 switch

Item No.
833.89.127

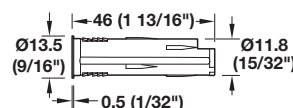


Please order lead with snap-in connector for modular switches driver separately. Length 2000 mm (78 3/4"): Item No. 833.89.142, see page 89.



On/off state is stored without the need for power supply (memory function).

Häfele Loox door sensor switch, modular - soft on/off switching



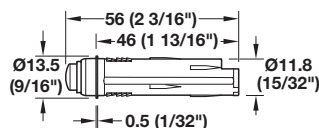
- > Material/Color: Plastic, silver colored
- > Degree of protection: IP20
- > Sensor range: 0–100 mm (0–4")
- > Power consumption: ≤0.3 W
- > Drill hole Ø: 12 mm (1/2")
- > Supplied with: 1 switch

Item No.
833.89.128



Please order lead with snap-in connector for modular switches driver separately. Length 2000 mm (78 3/4"): Item No. 833.89.142, see page 89.

Häfele Loox motion detector, modular - automatic on/off switching



- > Material/Color: Plastic, silver colored
- > Degree of protection: IP20
- > Sensor range: 0–3000 mm (0–118")
- > Sensor angle: 120 °
- > Power consumption: ≤0.1 W
- > Drill hole Ø: 12 mm (1/2")
- > Supplied with: 1 motion detector

Delay time

Delay time	Item No.
30 sec.	833.89.129
320 sec.	833.89.148

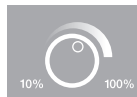
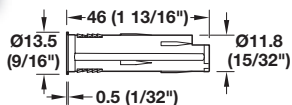


Please order lead with snap-in connector for modular switches driver separately. Length 2000 mm (78 3/4"): Item No. 833.89.142, see page 89.

Sensor switches

Häfele Loox dimmer, modular - soft on/off switching and dimming

TOUCH/
TOUCH-FREE



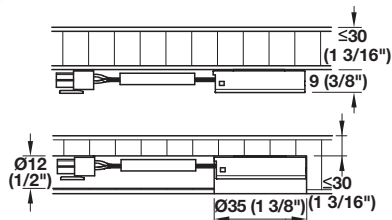
- > Material/color: Plastic, silver colored
- > Degree of protection: IP20
- > Power consumption: ≤ 0.3 W
- > Drill hole \varnothing : 12 mm (1/2")
- > Supplied with: 1 dimmer

	Sensor range	Item No.
Touch	–	833.89.058
Touch-free	0–60 mm (0–2 3/8')	833.89.126

+ Please order lead with snap-in connector for modular switches driver separately. Length 2000 mm (78 3/4"): Item No. 833.89.142, see page 89.

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

Häfele Loox capacitive switch/dimmer, modular - soft on/off switching and dimming



- > Manual operation (proximity sensor), memory function
- > Concealed installation in wood, glass or stone (not in ferrous metal materials) at a maximum depth of 30 mm (1 3/16")
- > For screw fixing or recess mounting (drill hole \varnothing 35 mm (1 3/8"))
- > A distance of min. 500 mm (19 11/16") away from electromagnetic fields (power lines, microwave) must be adhered to.

- > Material/Color: Plastic, silver colored
- > Diameter: 35 mm (1 3/8")
- > Height: 10 mm (3/8")
- > Degree of protection: IP20
- > Power consumption: ≤ 1 W
- > Supplied with: 1 switch

	Item No.
	833.89.133

+ Please order lead with snap-in connector for modular switches driver separately. Length 2000 mm (78 3/4"): Item No. 833.89.142, see page 89.

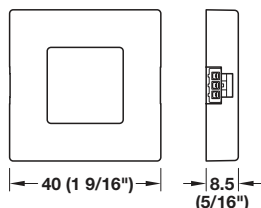
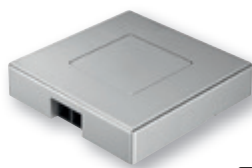
This completely invisible operating solution opens up new possibilities in continuously adjustable light control.

Sensor switches



Häfele Loox sensor switch, surface mounted modular - touch-free on/off switching

TOUCH-FREE



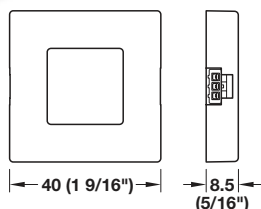
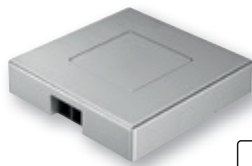
- > Material/Color: Plastic, silver colored
- > L x W x H: 40 x 40 x 8.5 mm (1 9/16" x 1 9/16" x 5/16")
- > Degree of protection: IP20
- > Sensor range: 0–80 mm (0–3 1/8")
- > Power consumption: ≤0.3 W
- > Supplied with: 1 switch with fixing material

Item No.
833.89.136

+ Please order lead with snap-in connector for modular switches driver separately. Length 2000 mm (78 3/4"): Item No. 833.89.142, see page 89.

! On/off state is stored without the need for power supply (memory function).

Häfele Loox door sensor switch, surface mounted modular - soft on/off switching



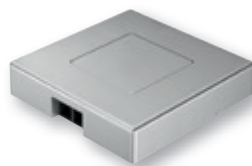
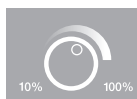
- > Material: Plastic
- > L x W x H: 40 x 40 x 8.5 mm (1 9/16" x 1 9/16" x 5/16")
- > Degree of protection: IP20
- > Sensor range: 0–100 mm (0–4")
- > Power consumption: ≤0.3 W
- > Supplied with: 1 switch with fixing material

Silver colored	Black	White
833.89.137	833.89.182	833.89.183

+ Please order lead with snap-in connector for modular switches driver separately. Length 2000 mm (78 3/4"): Item No. 833.89.142, see page 89.

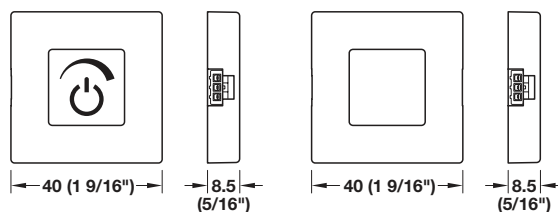
Häfele Loox dimmer, surface mounted modular - soft on/off switching and dimming

TOUCH/ TOUCH-FREE



Touch

Touch-free



- > Material: Plastic
- > L x W x H: 40 x 40 x 8.5 mm (1 9/16" x 1 9/16" x 5/16")
- > Degree of protection: IP20
- > Sensor range: 0–100 mm (0–4")
- > Power consumption: ≤0.3 W
- > Supplied with: 1 switch with fixing material

	Sensor range	Color	Item No.
Touch	–	silver colored	833.89.134
Touch-free	0–80 (0–3 1/8")	silver colored	833.89.135
Touch	–	black	833.89.176
Touch	–	white	833.89.177

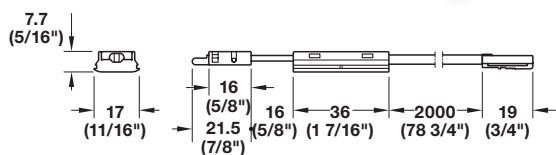
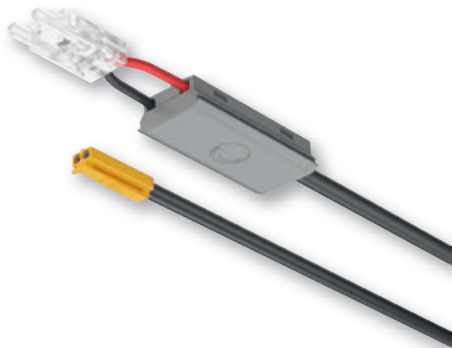
+ Please order lead with snap-in connector for modular switches driver separately. Length 2000 mm (78 3/4") : Item No. 833.89.142, see page 89.

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

Sensor switches

For monochrome 8 mm (5/16") strip lights in aluminum profiles

Loox5 aluminum profile dimmer - soft on/off switching with dimming



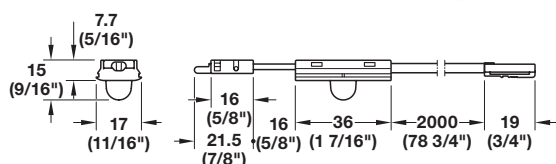
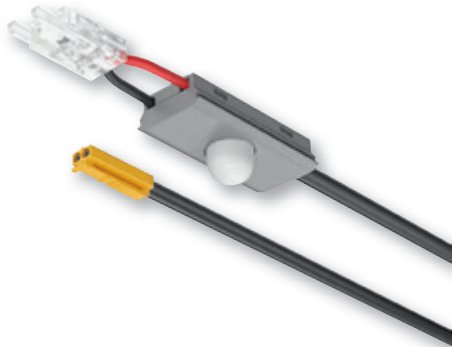
- > Area of application: For monochrome 8 mm (5/16") Loox5 LED strip lights in aluminum profiles with 16 mm (5/8") internal width
- > Material/Color: Plastic, silver colored
- > Drill hole Ø: Plug 8 mm (5/16")
- > Mounting: For push fitting into aluminum profile
- > Supplied with: 1 switch with clip/plug and 2 m (78 3/4") lead

Voltage	Max. connected wattage W	Item No.
5 12 V	60	833.95.751
5 24 V	90	833.77.836

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

➔ Aluminum profile with 16 mm (5/8") internal width, see pages 24 and 30.

Loox5 aluminum profile motion detector - automatic on/off switching



- > Area of application: For monochrome 8 mm (5/16") Loox5 LED strip lights in aluminum profiles with 16 mm (5/8") internal width
- > Material/Color: Plastic, silver colored
- > Drill hole Ø: Plug 8 mm (5/16")
- > Mounting: For push fitting into aluminum profile
- > Sensor range: 0–3000 mm (0–118 1/8")
- > Delay time: 30 sec.
- > Supplied with: 1 switch with clip/plug and 2 m (78 3/4") lead

Voltage	Max. connected wattage W	Item No.
5 12 V	60	833.95.750
5 24 V	90	833.77.835

➔ Aluminum profile with 16 mm (5/8") internal width, see pages 24 and 30.

Mechanical switches

ILLUMINATING

EXTENDING

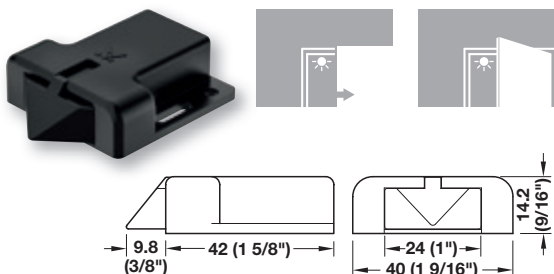
SWITCHING

NETWORKING

DISTRIBUTING

SUPPLYING

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



- > Material/Color: Plastic, black
- > Degree of protection: IP20
- > L x W x H: 51.8 x 40 x 14.2 mm (2 1/16" x 1 9/16" x 9/16")
- > Supplied with: 1 switch with fixing material

Item No.
833.89.143

The universal door contact switch is suitable for hinged doors or single sliding doors.



Please order 2000 mm (78 3/4") lead with snap-in connector for modular switches driver separately below, Item No. 833.89.142.

Häfele Loox lead with snap-in connector - for modular switches



- > Material/Color: Plastic, black
- > Degree of protection: IP20
- > Supplied with: 1 lead

Length	Item No.
500 (19 11/16")	833.89.140
1000 (39 3/8")	833.89.141
2000 (78 3/4")	833.89.142

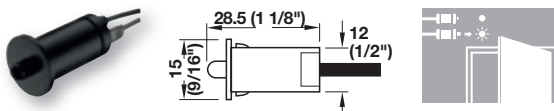


Required for modular switches



Drill hole Ø for plug: 12 mm (1/2")

Häfele Loox door contact switch - on/off switching



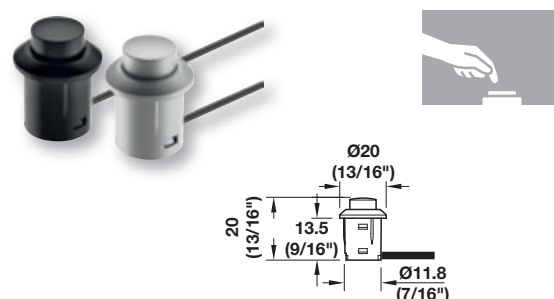
- > Material/Color: Plastic, black
- > Degree of protection: IP20
- > Drill hole Ø: 12 mm (1/2")
- > Length: 28 mm (1 1/8")
- > Supplied with: 1 switch with 2000 mm (78 3/4") lead

Item No.
833.89.059



Drill hole Ø for plug: 12 mm (1/2")

Häfele Loox push switch - on/off switching



- > Material: Plastic
- > Length: 20 mm (13/16")
- > Drill hole Ø: 12 mm (1/2")
- > Supplied with: 1 switch with 2000 mm (78 3/4") lead

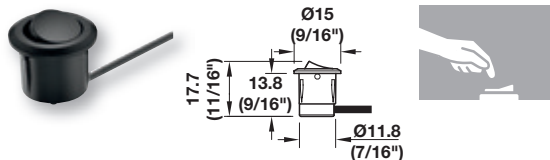
Color	Item No.
black	833.89.108
gray	833.89.107



Drill hole Ø for plug: 12 mm (1/2")

Mechanical switches

Häfele Loox rocker switch - on/off switching

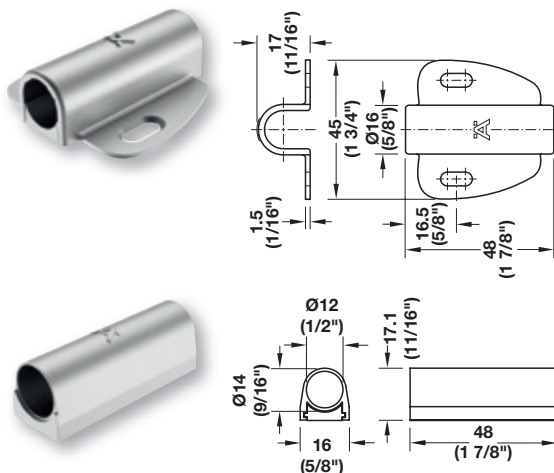


- > Material/Color: Plastic, black
- > Diameter: 15 mm (9/16")
- > Height: 17.7 mm (11/16")
- > Drill hole Ø: 12 mm (1/2")
- > Supplied with: 1 switch with 2000 mm (78 3/4") lead

Item No.
833.89.106

! Drill hole Ø for plug: 12 mm (1/2")

Housing for switch - surface mounted



- > Material/Color: Plastic, silver colored
- > Supplied with: 1 housing
- > Application: For switch Ø 12 mm (1/2")

Ø	L x W x H	Item No.
16 (5/8")	48 x 45 x 17 (1 7/8" x 1 3/4" x 11/16")	833.89.090
14 (9/16")	48 x 16 x 17 (1 7/8" x 5/8" x 11/16")	833.89.092

! Suitable for 32 mm (1 1/4") series drilled holes

Housing - for switch, face frame, surface mounted

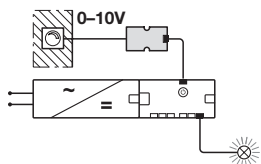


- > Material: Plastic
- > Application: For switch Ø 12 mm (1/2")
- > W x D x H: 19 x 19 x 25.4 mm (3/4" x 3/4" x 1")

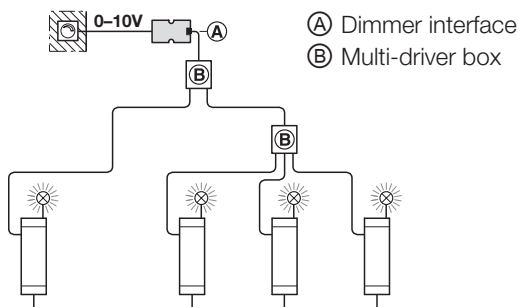
Color	Item No.
Gray	830.38.423
Black	830.38.424

Dimmer interface

Häfele Loox dimmer interface 0–10 V, modular - for 12 V and 24 V



Installation example: Wall dimmer with 0–10 V control output. No connection of the dimmer to power cord voltage.



Design advantage

> Wall dimmers can be used for the control of furniture lights in the design of the house installation

- > Material/Color: Plastic, black
- > L x W x H: 68.9 x 34.7 x 13.5 mm
(2 11/16" x 1 3/8" x 9/16")
- > Degree of protection: IP20
- > Supplied with: 1 dimmer interface

Item No.

833.89.144

! Use dimmer only, if monochrome lights are connected. Not suitable for the connection of converters or control devices. Direct connection to a normal household dimmer with a 0–10 V control output and connection via a lead with snap-in connector for modular switches to the switching input of a 12 V or 24 V Loox driver or a distributor. Please order lead with snap-in connector for modular switches driver separately.

Installation example: Multi-driver boxes for controlling several drivers (12 V, 24 V) or distributors with switching function. No connection of the dimmer to power cord voltage.

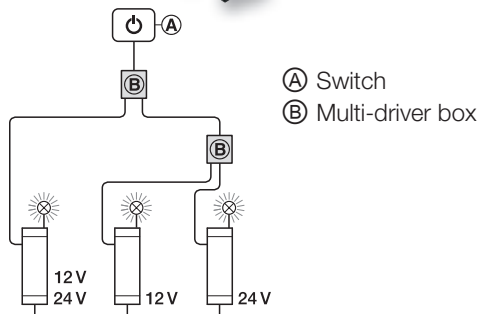
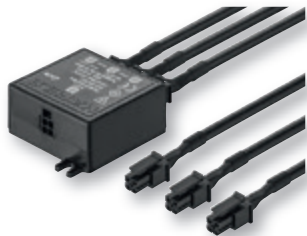
! Drill hole Ø for plug: 12 mm (1/2")

+ Lead with snap-in connector for modular switches

Length	Item No.
500 (19 11/16")	833.89.140
1000 (39 3/8")	833.89.141
2000 (78 3/4")	833.89.142

Switch accessories

Häfele Loox multi-driver box



- > Material/Color: Plastic, black
- > Standby power consumption W: 1.5 W
- > L x W x H: 50 x 40 x 19 mm (2" x 1 9/16" x 3/4")
- > Supplied with: 1 multi-driver box with 3 x 1000 mm (39 3/8") lead for switch

Item No.
833.89.061

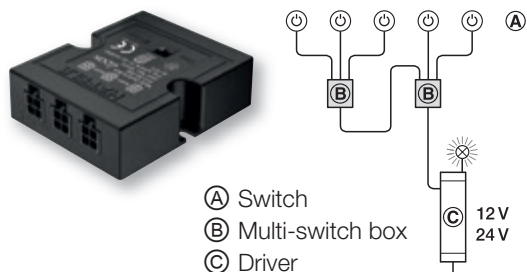
! Max. 3 x 75 W per multi-driver box.

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 multi-switch box



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.

! Drill hole Ø for plug: 12 mm (1/2")
Alternative to the supplied 1000 mm (39 3/8") lead for multi-switch box.
The drill hole Ø for the male plug and the female socket of the switch leads is 12 mm (1/2").

! Drill hole Ø for plug: 12 mm (1/2")
Alternative to the supplied three 1000 m (39 3/8") leads for multi-driver box.
The drill hole Ø for the male plug and the female socket of the switch leads is 12 mm (1/2").

- > Function: 2 operating modes can be selected using an integrated toggle switch.
Cross: On/off switching at different switches
No cross: Switching on with switch 1, 2 or 3. For switching off, all switches that were switched on have to be activated again
- > Material/Color: Plastic, black
- > Standby power consumption W: ≤0.3
- > L x W x H: 55 x 45 x 16 mm (2 3/16" x 1 3/4" x 5/8")
- > Degree of protection: IP20
- > Supplied with: 1 multi-switch box
With 1000 mm (39 3/8") lead for switch

Item No.
833.89.066

Lead from multi-boxes to switching input

- > Supplied with: 1 lead

Length	Item No.
500 (19 11/16")	833.89.068
2000 (78 3/4")	833.89.069

Häfele Loox extension lead - for switches



- > Length: 2000 mm (78 3/4")
- > Supplied with: 1 lead

Item No.
833.89.067

! Drill hole Ø for plug: 12 mm (1/2")
Can also be used for the multi-switch and multi-driver boxes.
The maximum lead length of a switch is 6000 mm (236 1/4").
The drill hole Ø for the male plug and the female socket of the switch leads is 12 mm (1/2").

Networking

ILLUMINATING



EXTENDING



SWITCHING



NETWORKING



DISTRIBUTING



SUPPLYING



Häfele Connect Mesh 6-way distributor

6-way distributor

> Page 95



Häfele Loox5 adapters

Multi-white adapter

> Page 96

RGB adapter

> Page 96



Häfele Connect Mesh remote controls

Remote control

> Page 97

Push button, wall-mounted

> Page 97



Häfele Connect Mesh interface

2-channel interface

> Page 98

4-channel interface

> Page 99



Häfele Connect BLE Box

BLE box

> Page 100

BLE wall switch

> Page 101



Networking

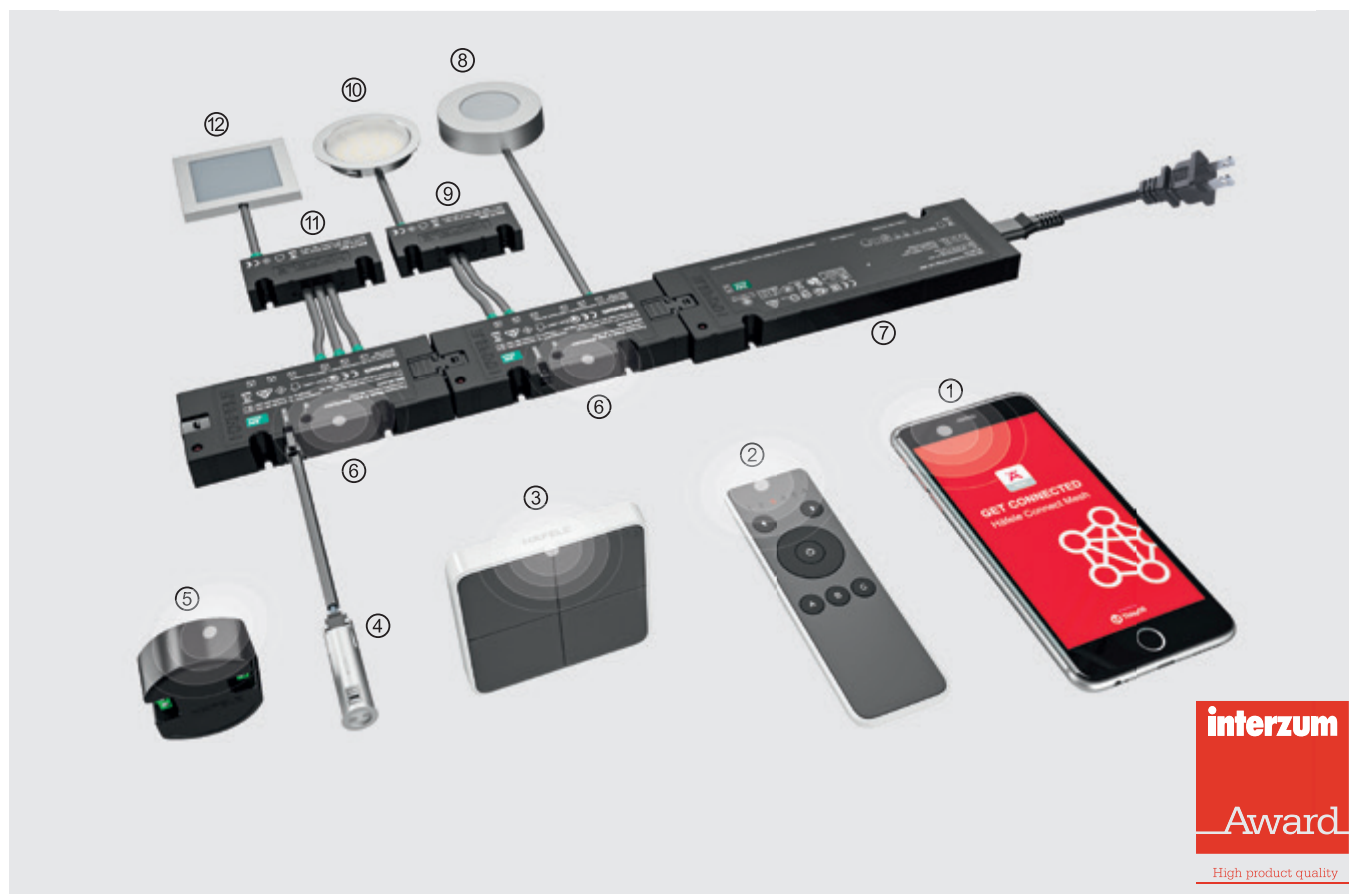
Häfele Connect Mesh

Häfele Connect Mesh consists of components for the smart control of lights and electrically operated fittings in furniture – with optional integration of the electrical installation of buildings.

Mesh means networking, and it uses the Bluetooth® Mesh network technology by the Bluetooth® Special Interest Group, which has the potential to become the global smart building standard.

The advantages are:

- > Scalable: From the simple remote control of a furniture light to complex concepts in hotels or store fixtures
- > Fail-safe: All nodes in the network forward control information
- > Protected: Individual network key on your personal mobile device
- > Standardized: Bluetooth® is a globally accepted and widely used technology



interzum
Award
High product quality



Häfele Connect Mesh active components

> Sensor

- ① Mobile device with Häfele Connect app
- ② Remote control
- ③ Push button, wall-mounted
- ④ Loox switch (switching function programmable via app)

> Actuator and sensor

- ⑤ 2-channel interface: 2 switching input ports (switching function programmable via app)
Output port 80–230 V
- ⑥ Häfele Connect Mesh 6-way distributor

Passive components without networking function

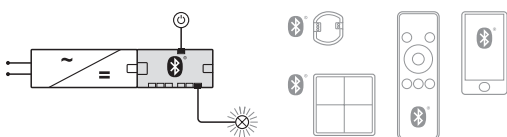
- ⑦ Driver
- ⑧ Monochrome light or electrically operated fitting
- ⑨ Multi-white adapter
- ⑩ Multi-white light
- ⑪ RGB adapter
- ⑫ RGB light

Distributor



Häfele Connect Mesh 6-way distributor - with switching function

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



MESH

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. With programmable switching input. For standard Loox switches (switching function programmable via app; each active component can control each passive component, see page 97)
- > Version:
- > Material/Color: Plastic, black
- > L x W x H: 120 x 50 x 16 mm (4 3/4" x 2" x 5/8")
- > 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
- > Supplied with: 1 distributor

Voltage	Max. connected wattage W	Item No.
5 12 V	60	850.00.042
5 24 V	90	850.00.043

! The distance between the smartphone or tablet to the nearest Häfele Connect Mesh component is approx. 10,000 mm (393"). Multiple components create a network, and can also be placed approximately 10,000 mm (393") apart.

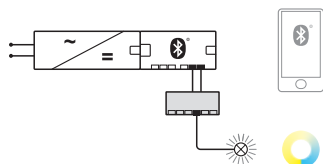
+ Please order adapter for multi-white lights, RGB lights, or electrically operated fittings separately, see page 96.

➔ 6-way distributor for monochrome lights or other 2-pin powered devices, such as electrically operated fittings, see page 104.

Adapters



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



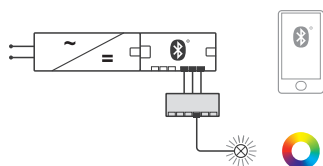
- > Area of application: For connecting multi-white lights to the Häfele Connect Mesh 6-way distributor
- > Material/Color: Plastic, black
- > L x W x H: 70 x 30 x 14 mm (2 3/4" x 1 3/16" x 9/16")
- > Number of connections: 2x input port with plug, monochrome
6x output ports device sockets, multi-white
- > Supplied with: 1 distributor with 80 mm (3 1/8") lead

Voltage	Max. connected wattage W	Item No.
5 12V	60	833.95.745
5 24V	90	833.77.830

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



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

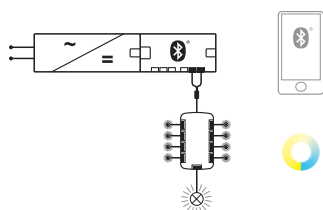


- > Area of application: For connecting RGB lights to the Häfele Connect Mesh 6-way distributor
- > Material/Color: Plastic, black
- > L x W x H: 70 x 30 x 14 mm (2 3/4" x 1 3/16" x 9/16")
- > Number of connections: 3x input ports with plug, monochrome
6x output ports for device sockets, RGB
- > Supplied with: 1 distributor with 80 mm (3 1/8") lead

Voltage	Max. connected wattage W	Item No.
5 12V	60	833.95.746
5 24V	90	833.77.831

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

Multi-white adapter - for 2048 & 3039 puck lights



- > Area of application: For connecting 2048 & 3039 multi-white puck leads to the Häfele Connect Mesh 6-way distributor
- > Material/Color: Plastic, white
- > L x W x H: 100 x 57 x 17 mm (4" x 2 1/4" x 11/16")
- > Number of connections: 2x input port with Loox plug, 9x output ports, multi-white
- > Supplied with: 1 adapter

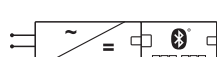
Voltage	Max. connected wattage W	Item No.
12V	42	850.00.011
24V	84	850.00.012

! To connect multi-white adapter leads to Connect Mesh 6-way distributor, please order 12V or 24V Loox>Loox5 adapter set separately, see page 116.

Remote 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 components at the Häfele Connect Mesh 6-way distributor
- > Function: 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
- > Color: Faceplate: Black; Housing: White
- > L x W x H: 130 x 42 x 11 mm
(5 1/8" x 1 5/8" x 7/16")
- > Supplied with: 1 remote control

Item No.

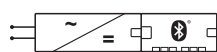
850.00.040



Please order Häfele Connect Mesh 6-way distributor separately, see page 95.
Please order 2 replaceable CR2032 button cell lithium batteries (2 x 002.99.032) separately, see page 139.



Häfele Connect Mesh push button - wall-mounted



- > Area of application: For controlling components on the 6-way distributor, Häfele Connect Mesh (all functions that are accessible by pressing or holding a button)
- > Function: 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
- > Color: Faceplate: Black; Frame: White
- > L x W x H: 81 x 81 x 12 mm
(3 3/16" x 3 3/16" x 1/2")
- > Mounting: For screw or glue fixing to any wall
- > Supplied with: 1 push button, wall-mounted

Item No.

850.00.041

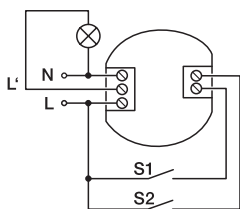
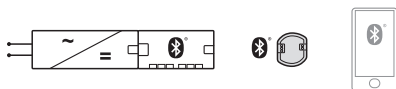
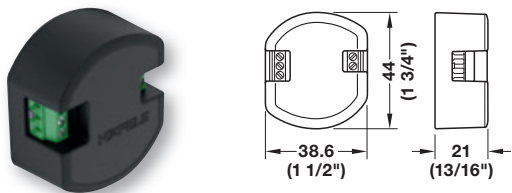


Please order Häfele Connect Mesh 6-way distributor separately, see page 95.
Please order 1 replaceable CR2430 button cell lithium battery (1 x 002.99.034) separately, see page 139.

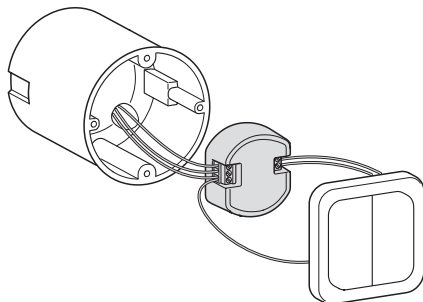
Interface electrical installation



Häfele Connect Mesh 2-channel interface - with potential free relay



Installation example



Installation in a deep switch box

Design advantage

- > Use switches in the design of the house installation for the control of furniture and room lights with Häfele Connect Mesh

- > Area of application: For on/off control of room lighting or other home installations via the Häfele Connect Mesh and for integrating conventional wall-mounted toggle switch into the Häfele Connect Mesh
- > Version: Function programmable via app, each active component can control each passive component, see page 97.
- > Number of connections: 2 switching input port for conventional wall-mounted toggles switches (double-throw), 1 output port for on/off switching of 80–230 V, 3 A (can be controlled from any active component of the network)
- > Material: Plastic
- > L x W x H: 39 x 44 x 21 mm (1 9/16" x 1 3/4" x 13/16")
- > Mounting: Suitable for installation in switch boxes. Recommended switch box depth: 60 mm (2 3/8").
- > Supplied with: 1 2-channel interface

Item No.

850.00.046

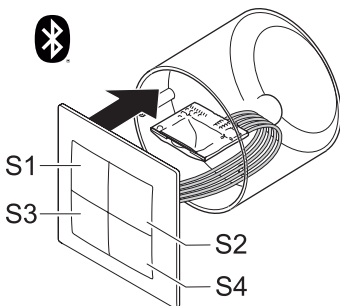
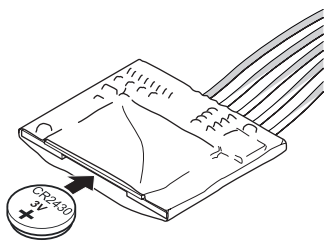
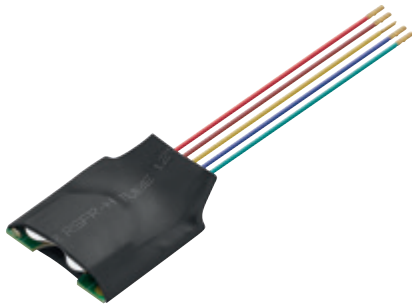


Please order Häfele Connect Mesh 6-way distributor separately, see page 95.

Interface, battery operated



Häfele Connect Mesh 4-channel interface



Design advantage

- > Use switches in the design of the house installation for the control of furniture and room lights with Häfele Connect Mesh

- > Area of application: For controlling components on the 6-way distributor Häfele Connect Mesh (all functions that are possible by pressing or holding a button)
- > Function: Program switch buttons via Häfele Connect Mesh app to control every node of the network. Each time a switch button is pressed, the interface converts it into radio signals. No load flows through the switch.
- > Number of connections: 4 switching inputs for conventional 4-fold wall switches (double rocker with 4 active touch fields)
- > Material: Plastic
- > L x W x H: 48 x 7 x 39 mm
(1 7/8" x 9/32" x 1 9/16")
- > Mounting: Suitable for installation in switch boxes.
Recommended switch box depth: 60 mm (2 3/8").
- > Supplied with: 1 4-channel interface

Item No.
850.00.047



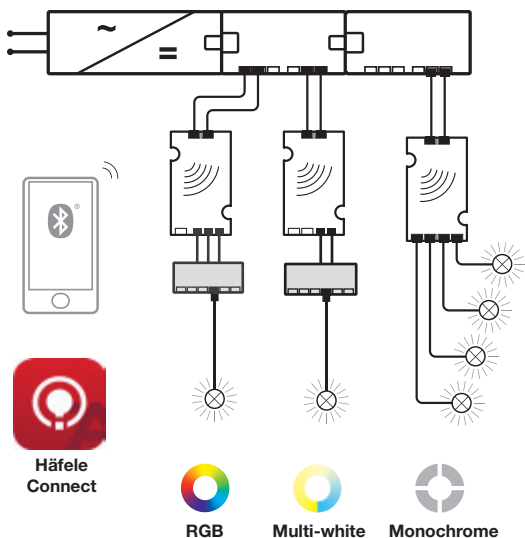
Please order Häfele Connect Mesh 6-way distributor separately, see page 95.
Please order 1 replaceable CR2430 button cell lithium battery (1 x 002.99.034) separately, see page 139.

BLE Box



Häfele Connect BLE Box

- > The Häfele Connect BLE (Bluetooth® low energy) box makes it possible to control Loox lights using the Häfele Connect app or the BLE wireless Bluetooth® wall switch, see page 101.
- > BLE Box connects to Loox5 drivers via Loox5 6-Way distributor, see page 104.



Häfele Connect App

- > Ability to manage a single BLE box or an entire network of BLE boxes with a smartphone or tablet
- > Controls on/off, brightness (0-100%), color temperature (multi-white lights) and the light color (RGB lights)
- > Set up light groups and scenes
- > Time controlled programming of brightness, color temperature, light color
- > 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 or RGB lights.
- > Version: 4 channel
- > Material/Color: Plastic, black
- > L x W x H: 100 x 57 x 17 mm (4" x 2 1/4" x 11/16")
- > Number of connections: 2x 300 mm (11 3/16") 4x output ports
- > Supplied with: 1 BLE box

Voltage	Max. connected wattage W	Item No.
12 V	60	850.00.005
24 V	90	850.00.006

- ! The distance between the smartphone or tablet to the nearest Häfele Connect Mesh component is approx. 10 m (32' 9 3/4"). Multiple BLE boxes create a network, and can also be placed 10 m (32' 9 3/4") apart.

- + Please order adapter for multi-white lights, RGB lights, see page 96.

- + To connect Loox5 leads to BLE box, please order 12V or 24V Loox5>Loox adapter set separately, see page 117.
- To connect BLE box leads to Loox5 distributors, please order 12V or 24V Loox>Loox5 adapter set separately, see page 116.

BLE Wall Switch



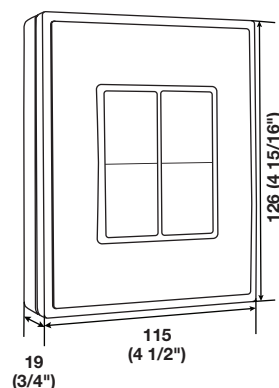
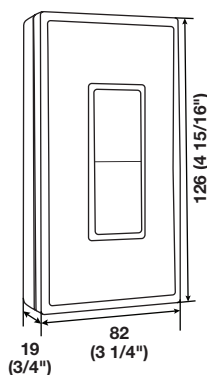
BLE Wall Switch



Single



Double



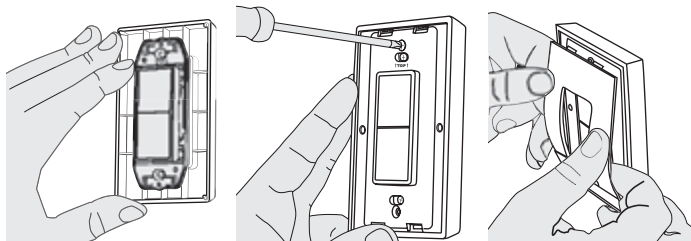
- > Area of application: For controlling components connected to the Häfele Connect BLE box
- > Function: Wall switch functions by pressing or holding down a button to:
Switch on/off and dimming of white, multi-white and RGB lights and setting the color temperature of multi-white lights.
 - > Can be placed anywhere, no wires required
 - > Maintenance free (batteries not required)
- > Material: Plastic
- > Color: white
- > Mounting: Surface mount for screw fixing
- > Supplied with: BLE wall switch, base, wall plate, cover

Version	L x W x H	Item No.
Single	126 x 82 x 19 (4 15/16" x 3 1/4" x 3/4")	850.00.025
Double	126 x 115 x 19 (4 15/16" x 4 1/2" x 3/4")	850.00.026



Please order Häfele Connect BLE box separately, see page 100.

Installation








Configuration

1. Switch coupled to network via a smartphone with NFC capability or a tablet with the Häfele Connect app installed
2. Switch positions programmed with a smartphone with Bluetooth® capability or a tablet with the Häfele Connect app installed

Distributing

Distributor

	Häfele Loox5 6-way distributor	> Page 104
	Häfele Loox 6-way distributor	> Page 105
	Häfele Loox 3-way distributor	> Page 105
	Häfele Loox5 2-way distributor	> Page 105
	Häfele Connect Mesh 6-way distributor	Networking > Page 95



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Leads and connectors for LED strip lights

Leads for LED strip light monochrome, 5 mm (3/16")	> Page 111
Leads for LED strip light monochrome, 8 mm (5/16")	> Page 112
Leads for LED silicone strip light monochrome, 8 mm (5/16")	> Page 113
Leads for LED strip light multi-white, 8 mm (5/16")	> Page 114
Leads for LED strip lights RGB, 10 mm (3/8")	> Page 115



111

Extension leads

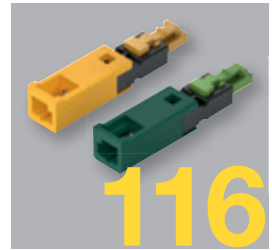
Extension lead monochrome/2-pin	> Page 106
Extension lead multi-white	> Page 106
Extension lead RGB	> Page 107
4-way extension lead monochrome/2-pin	> Page 107



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Adapters

Adapters Loox/Loox5	> Pages 116–117
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Modular leads

Lead for modular lights and other modular devices	> Pages 108–109
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Cable routing

Cable channel	> Page 118
Cable cover	> Page 118



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Switch leads

Extension lead for switches	> Page 110
Lead for modular switches	> Page 110
Lead for switches	> Page 110



110

Accessories

Drill bits	> Pages 119–120
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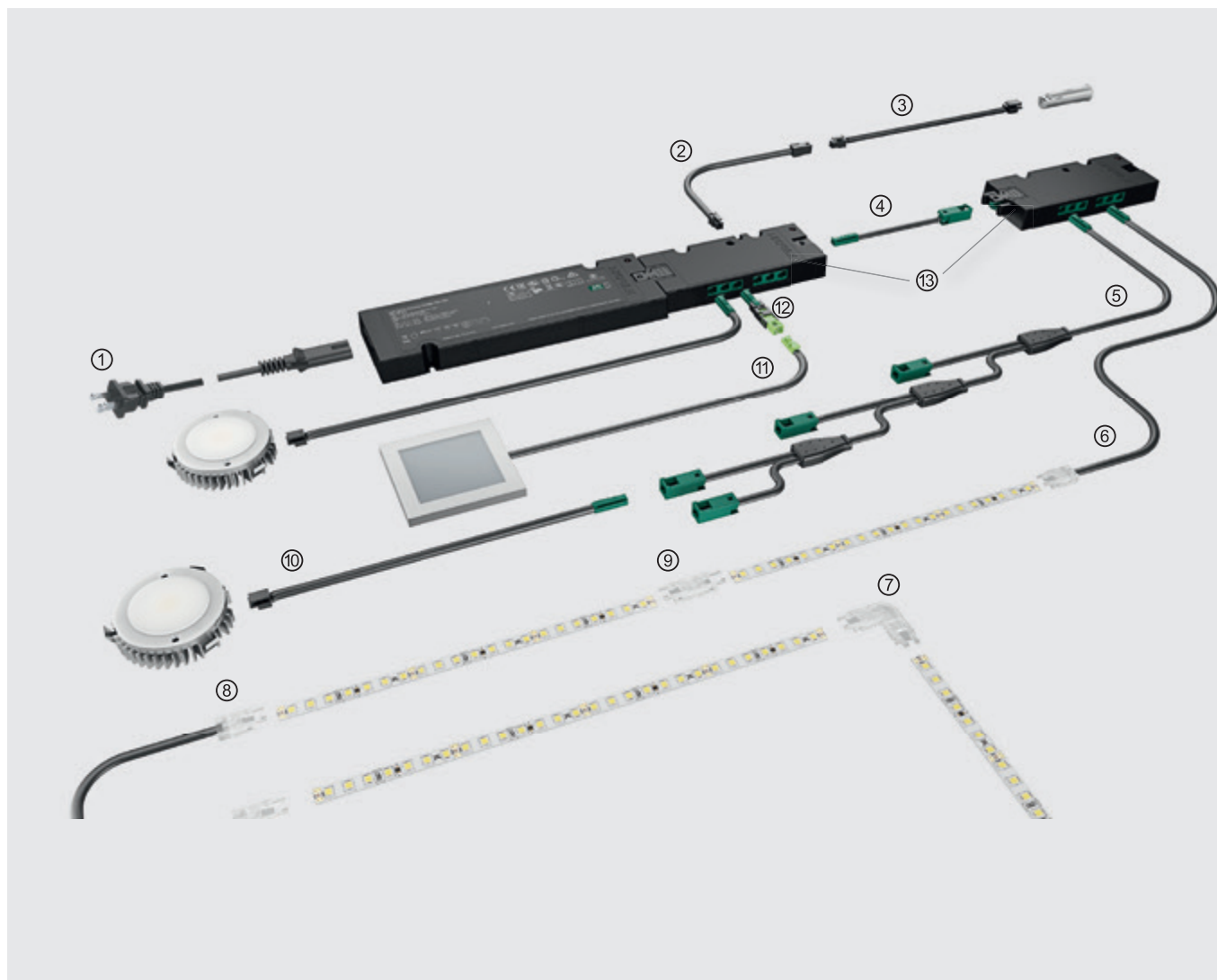


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Distributing



Definition of terms



- ① Power cord
- ② Extension lead for switch
- ③ Lead for modular switches
- ④ Extension lead
- ⑤ 4-way extension 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 Lead for modular lights
- ⑪ Light with permanent lead
- ⑫ Adapter
- ⑬ 6-way distributor

Distributors

Häfele Loox5 box to box 6-way distributor

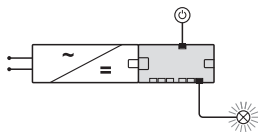
Plug connection box to box

- > 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 Connect Mesh 6-way distributor, see page 95

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



1 switch controls all output ports



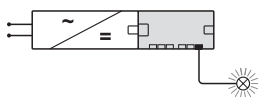
- > Material/Color: Plastic, black
- > L x W x H: 120 x 50 x 16 mm (4 3/4" x 2" x 5/8")
- > Number of connections: 1 x input port with box to box plug
1 x output port with box to box socket
1 x input port switch socket
6 x output ports
- > Supplied with: 1 distributor

Voltage	Max. connected wattage W	Item No.
5 12 V	60	833.95.748
5 24 V	90	833.77.833

Loox5 distributor with Loox output ports

Voltage	Max. connected wattage W	Item No.
12 V	42	833.95.749
24 V	84	833.77.834

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



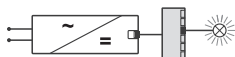
- > Material/Color: Plastic, black
- > L x W x H: 120 x 50 x 16 mm (4 3/4" x 2" x 5/8")
- > Number of connections: 1 x input port with box to box plug
1 x output port with box to box socket
6 x output ports
- > Supplied with: 1 distributor

Voltage	Max. connected wattage W	Item No.
5 12 V	60	833.95.747
5 24 V	90	833.77.832

Häfele Loox5 6-way distributor - without switching function



Can also be connected to 6-way distributor.



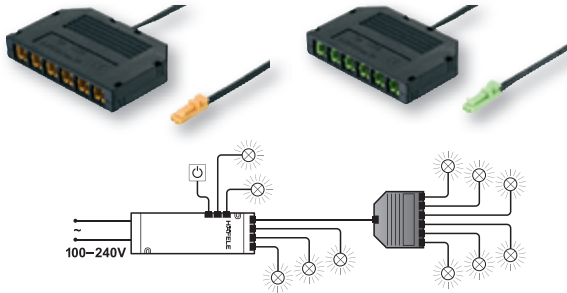
- > Material/Color: Plastic, black
- > L x W x H: 70 x 30 x 14 mm (2 3/4" x 1 3/16" x 9/16")
- > Number of connections: 1 x input port with box to box plug
1 x output port with box to box socket
6 x output ports
- > Supplied with: 1 distributor

Voltage	Max. connected wattage W	Item No.
5 12 V	60	833.95.786
5 24 V	90	833.77.839

Distributors



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

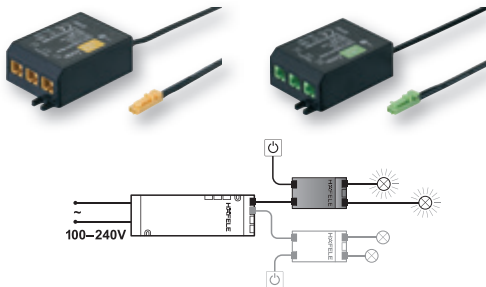


- > Material/Color: Plastic, black
- > L x W x H: 58.5 x 34 x 18 mm
(2 1/4" x 1 5/16" x 11/16")
- > Supplied with: 2000 mm (78 3/4") lead

Voltage	Max. connected wattage W	Item No.
12 V	42	833.74.798
24 V	84	833.77.724

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

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

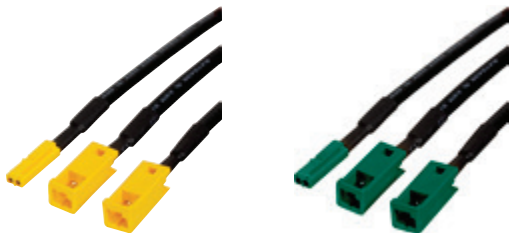


- > Material/Color: Plastic, black
- > L x W x H: 57 x 34 x 18 mm
(2 1/4" x 1 5/16" x 11/16")
- > Supplied with: 200 mm (7 7/8") lead

Voltage	Max. connected wattage W	Item No.
12 V	42	833.74.751
24 V	84	833.77.723

! Up to 3 lights can be operated separately and individually using the 3-way distributor with switching function connected to the output of the light.

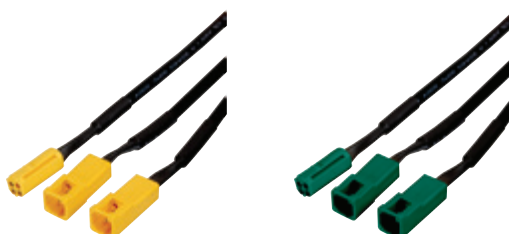
Häfele Loox5 2-way Y distributor monochrome - 1 male, 2 female



- > Material/Color: Plastic, black
- > Length: 1500 mm (59 1/16")
- > Supplied with: 1 lead
1 plug/2 sockets

Voltage	Max. connected wattage W	Item No.
5 12 V	60	833.93.737
5 24 V	90	833.75.744

Häfele Loox5 2-way Y distributor multi-white - 1 male, 2 female



- > Material/Color: Plastic, black
- > Length: 1500 mm (59 1/16")
- > Supplied with: 1 lead
1 plug/2 sockets

Voltage	Max. connected wattage W	Item No.
5 12 V	60	833.93.738
5 24 V	90	833.93.739

Extension leads

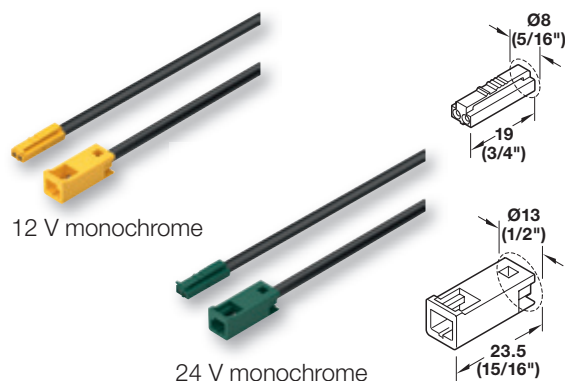
Häfele Loox5 extension leads



Maximum lead length from the Loox5 driver to the device is 10,000 mm (393 11/16").

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).

Häfele Loox5 extension leads monochrome



- > Area of application: For monochrome lights and other 2-wire devices and distributors
- > Material: Plastic
- > Current carrying capacity: Max. 5 A
- > Type of cable: 2-wire 18 AWG
- > Drill hole Ø: Plug 8 mm (5/16"), socket 13 mm (1/2")
- > Supplied with: 1 extension lead
1 plug/1 socket

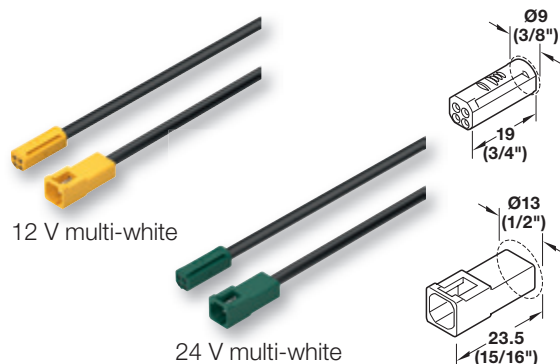
Voltage	500 mm (19 11/16")	1000 mm (39 3/8")	2000 mm (78 3/4")
5 12 V	833.95.712	833.95.713	833.95.714
5 24 V	833.95.719	833.95.718	833.95.717

- > Material: Plastic
- > Type of cable: 20 AWG
- > Length: 2000 mm (78 3/4")
- > Supplied with: 1 extension lead
1 plug/1 socket

Voltage	Item No.
5 12 V	833.73.766



Häfele Loox5 extension leads multi-white



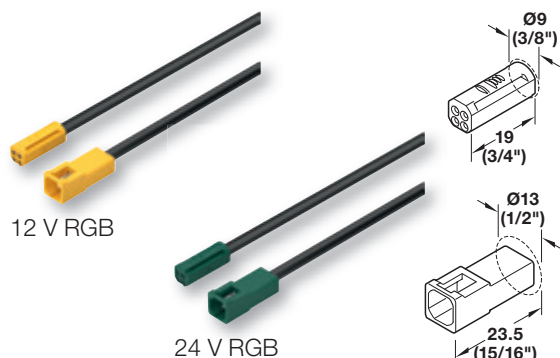
- > Area of application: For multi-white lights
- > Material: Plastic
- > Current carrying capacity: Max. 3.5 A
- > Type of cable: 3-wire 20 AWG
- > Drill hole Ø: Plug 9 mm (3/8"), socket 13 mm (1/2")
- > Supplied with: 1 extension lead
1 plug/1 socket

Voltage	Length	Item No.
5 12 V	2000 (78 3/4")	833.95.715
5 24 V	200 (7 7/8")	833.95.792
5 24 V	300 (11 13/16")	833.95.793
5 24 V	500 (19 11/16")	833.95.794
5 24 V	600 (23 5/8")	833.95.795
5 24 V	1000 (39 3/8")	833.95.796
5 24 V	2000 (78 3/4")	833.95.720

Leads



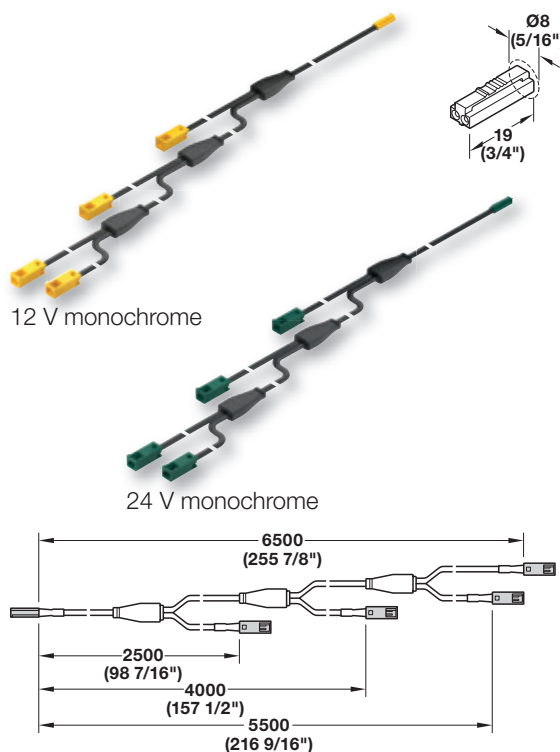
Häfele Loox5 extension leads RGB



- > Area of application: For RGB lights
- > Material: Plastic
- > Current carrying capacity: Max. 3.5 A
- > Type of cable: 4-wire 20 AWG
- > Drill hole Ø: Plug 9 mm (3/8\"), socket 13 mm (1/2\")
- > Length: 2000 mm (78 3/4\")
- > Supplied with: 1 extension lead
1 plug/1 socket

Voltage	Item No.
5 12 V	833.95.716
5 24 V	833.95.721

Häfele Loox5 4-way extension leads - monochrome



- > Area of application: For monochrome lights and other 2-wire powered devices and distributors
- > Current carrying capacity: Max. 5 A
- > Type of cable: 2-wire 18 AWG
- > Drill hole Ø: Plug 8 mm (5/16\"), socket 13 mm (1/2\")
- > Length: 6500 mm (255 7/8\")
- > Supplied with: 1 extension lead
1 plug/4 sockets

Voltage	Item No.
5 12 V	833.95.742
5 24 V	833.95.743

! Maximum lead length from the Loox5 driver to the device is 10,000 mm (393 11/16\"). 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).

Leads

In-wall leads, designed to be routed behind the drywall



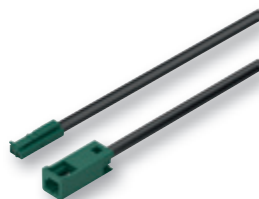
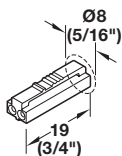
Meets the following codes for wire and cable locations:

- > NEC article 411 Lighting systems operating at 30 V or less attached to Class 2 power
- > NEC article 725.135 Installation of Class 2 cable
- > NEC article 411.5 Specific Location Requirements

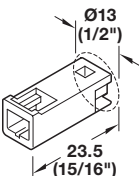
Häfele Loox5 CL3R extension leads monochrome



12 V monochrome



24 V monochrome



- > Area of application: For monochrome lights and other 2-wire powered devices and distributors
- > Material: Plastic
- > Current carrying capacity: Max. 5 A
- > Type of cable: Wire gauge: 18AWG; Wire type: CL3R
Construction: 2-conductor, stranded copper
Rating: Class 2, double insulated
- > Drill hole Ø: Plug 8 mm (5/16"), socket 13 mm (1/2")
- > Supplied with: 1 extension lead, 1 plug/1 socket

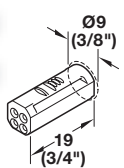
Voltage	Length	Item No.
5 12 V	100 (4")	833.93.725
	500 (19 11/16")	833.93.724
	2000 (78 3/4")	833.93.723
5 24 V	100 (4")	833.75.756
	500 (19 11/16")	833.75.755
	2000 (78 3/4")	833.75.754



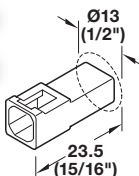
Häfele Loox5 CL3R extension leads multi-white



12 V multi-white



24 V multi-white



- > Area of application: For multi-white lights
- > Material: Plastic
- > Current carrying capacity: Max. 3.5 A
- > Type of cable: Wire gauge: 20AWG; Wire type: CL3R
Construction: 3-conductor, stranded copper
Rating: Class 2, double insulated
- > Drill hole Ø: Plug 9 mm (3/8"), socket 13 mm (1/2")
- > Supplied with: 1 extension lead, 1 plug/1 socket

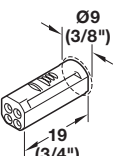
Voltage	Length	Item No.
5 12 V	2000 (78 3/4")	833.93.731
5 24 V	2000 (78 3/4")	833.75.757



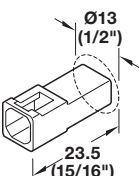
Häfele Loox5 CL3R extension leads RGB



12 V RGB



24 V RGB



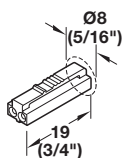
- > Area of application: For RGB lights
- > Material: Plastic
- > Current carrying capacity: Max. 3.5 A
- > Type of cable: Wire gauge: 20AWG; Wire type: CL3R
Construction: 4-conductor, stranded copper
Rating: Class 2, double insulated
- > Drill hole Ø: Plug 9 mm (3/8"), socket 13 mm (1/2")
- > Supplied with: 1 extension lead, 1 plug/1 socket

Voltage	Length	Item No.
5 12 V	2000 (78 3/4")	833.93.732
5 24 V	2000 (78 3/4")	833.75.758

Leads

Modular design

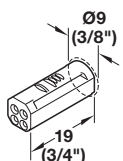
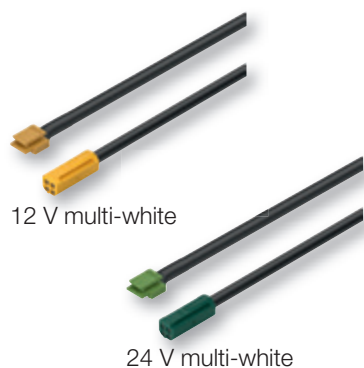
Häfele Loox5 lead - for modular lights and other modular devices



- > Area of application: For monochrome lights and other 2-wire powered devices and distributors
- > Version: With snap-in connector
- > Current carrying capacity: Max. 1.5 A
- > Type of cable: 2-wire 24 AWG
- > Drill hole Ø: Plug 8 mm (5/16")
- > Supplied with: 1 lead plug/plug

Voltage	Length	Item No.
5 12 V	1000 (39 3/8")	833.95.789
	2000 (78 3/4")	833.95.788
5 24 V	2000 (78 3/4")	833.95.791

Häfele Loox5 lead - for modular multi-white lights



- > Area of application: Modular multi-white lights
- > Version: With snap-in connector
- > Current carrying capacity: Max. 1.5 A
- > Type of cable: 3-wire 24 AWG
- > Drill hole Ø: Plug 9 mm (3/8")
- > Length: 2000 mm (78 3/4")
- > Supplied with: 1 lead plug/plug

Voltage	Item No.
5 12 V	833.95.787
5 24 V	833.95.790



Switch leads

Häfele Loox extension lead - for switches



- > Area of application: Switches and modular switches
- > Drill hole Ø: Plug 12 mm (1/2")
- > Length: 2000 mm (78 3/4")
- > Supplied with: 1 extension lead
plug/socket

Item No.
833.89.067



The maximum lead length of a switch is 6 m (236 1/4").

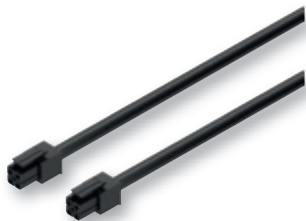
Häfele Loox lead - for modular switches



- > Area of application: Modular switches
- > Version: With snap-in connector
- > Drill hole Ø: Plug 12 mm (1/2")
- > Supplied with: 1 lead plug/plug

Length	Item No.
500 (19 11/16")	833.89.140
1000 (39 3/8")	833.89.141
2000 (78 3/4")	833.89.142

Häfele Loox lead - for multi-boxes to switching input



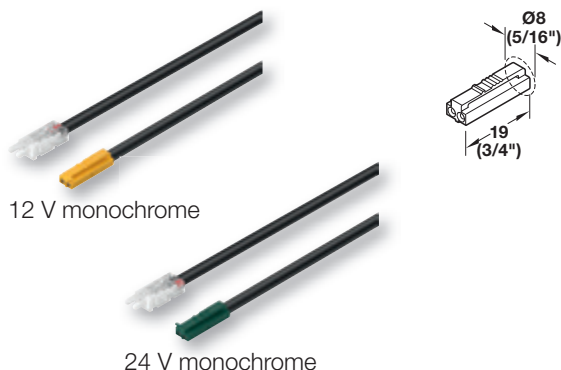
- > Area of application: Multi-switch and multi-driver box
- > Drill hole Ø: Plug 12 mm (1/2")
- > Supplied with: 1 lead plug/plug

Length	Item No.
500 (19 11/16")	833.89.068
2000 (78 3/4")	833.89.069

Leads

For LED strip light monochrome, 5 mm (3/16")

Häfele Loox5 lead - for LED strip light monochrome, 5 mm (3/16")



- > Current carrying capacity: Max. 3.5 A
- > Type of cable: 2-wire 20 AWG
- > Width: Clip 7 mm (1/4")
- > Drill hole Ø: Plug 8 mm (5/16")
- > Length: 2000 mm (78 3/4")
- > Supplied with: 1 lead plug/clip

Voltage	Item No.
5 12 V	833.95.705
5 24 V	833.95.711

Häfele Loox5 interconnecting lead - for LED strip light monochrome, 5 mm (3/16")



- > Current carrying capacity: Max. 3.5 A
- > Type of cable: 2-wire 20 AWG
- > Width: Clip 7 mm (1/4")
- > Drill hole Ø: Clip 10 mm (3/8")
- > Supplied with: 1 interconnecting lead clip/clip

Length	Item No.
50 (2")	833.89.194
500 (19 11/16")	833.89.195
2000 (78 3/4")	833.89.196

Häfele Loox5 clip connector - for LED strip light monochrome, 5 mm (3/16")



- > Current carrying capacity: Max. 3.5 A
- > Width: Clip 7 mm (1/4")
- > Drill hole Ø: Clip 10 mm (3/8")
- > Length: 33.5 mm (1 5/16")
- > Supplied with: 10 pcs.

Item No.
833.89.207

Häfele Loox5 corner connector - for LED strip light monochrome, 5 mm (3/16")



- > Current carrying capacity: Max. 3.5 A
- > L x W: 21 x 21 mm (13/16" x 13/16")
- > Supplied with: 10 pcs.

Item No.
833.89.190

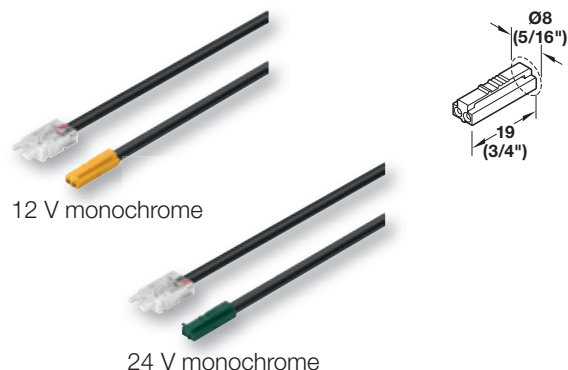
L^{OX}5

Leads

For LED strip light monochrome, 8 mm (5/16")

ALSO
FOR
CONSTANT
CURRENT
STRIP
LIGHTS

Häfele Loox5 lead - for LED strip light monochrome, 8 mm (5/16")



- > Current carrying capacity: Max. 5 A
- > Type of cable: 2-wire 18 AWG
- > Width: Clip 10 mm (3/8")
- > Drill hole Ø: Plug 8 mm (5/16")
- > Supplied with: 1 lead plug/clip

Voltage	Length	Item No.
5 12V	100 (4")	833.93.736
	500 (19 11/16")	833.95.701
	2000 (78 3/4")	833.95.700
5 24V	100 (4")	833.75.743
	500 (19 11/16")	833.95.707
	2000 (78 3/4")	833.95.706

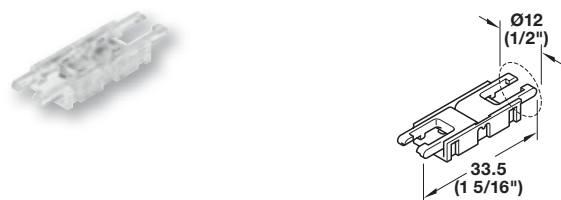
Häfele Loox5 interconnecting lead - for LED strip light monochrome, 8 mm (5/16")



- > Current carrying capacity: Max. 5 A
- > Type of cable: 2-wire 18 AWG
- > Width: Clip 10 mm (3/8")
- > Drill hole Ø: Clip 12 mm (1/2")
- > Supplied with: 1 lead clip/clip

Length	Item No.
50 (2")	833.89.191
500 (19 11/16")	833.89.192
2000 (78 3/4")	833.89.193

Häfele Loox5 clip connector - for LED strip light monochrome, 8 mm (5/16")



- > Current carrying capacity: Max. 5 A
- > Width: Clip 10 mm (3/8")
- > Drill hole Ø: Clip 12 mm (1/2")
- > Length: 33.5 mm (1 5/16")
- > Supplied with: 10 pcs.

Item No.
833.89.206

Häfele Loox5 corner connector - for LED strip light monochrome, 8 mm (5/16")



- > Current carrying capacity: Max. 5 A
- > L x W: 24 x 24 mm (15/16" x 15/16")
- > Supplied with: 10 pcs.

Item No.
833.89.187

Leads

For LED silicone strip light monochrome, 8 mm (5/16")

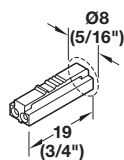
Häfele IP44 Loox5 lead - for LED silicone strip light monochrome, 8 mm (5/16")



12 V monochrome



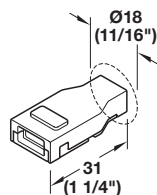
24 V monochrome



- > Current carrying capacity: Max. 5 A
- > Type of cable: 2-wire 18 AWG
- > Width: Silicone plug 15 mm (9/16")
- > Drill hole Ø: Plug 8 mm (5/16")
- > Length: 2000 mm (78 3/4")
- > Supplied with: 1 lead plug/clip

Voltage	Item No.
5 12 V	833.95.703
5 24 V	833.95.709

Häfele IP44 Loox5 interconnecting lead - for LED silicone strip light monochrome, 8 mm (5/16")



- > Current carrying capacity: Max. 5 A
- > Type of cable: 2-wire 18 AWG
- > Width: Clip 15 mm (9/16")
- > Drill hole Ø: Clamp 18 mm (11/16")
- > Supplied with: 1 lead clip/clip

Length	Item No.
50 (2")	833.89.203
500 (19 11/16")	833.89.204
2000 (78 3/4")	833.89.205



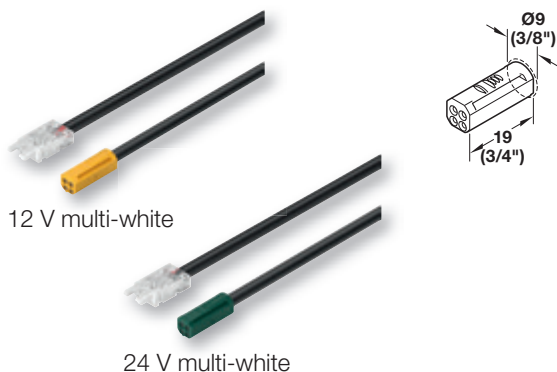
The leads and clips on page 112 can be used to make IP20 connections for the monochrome 8 mm (5/16") silicon strip.

Leads

For LED strip light multi-white, 8 mm (5/16")



Häfele Loox5 lead - for LED strip light multi-white, 8 mm (5/16")



- > Current carrying capacity: Max. 3.5 A
- > Type of cable: 3-wire 20 AWG
- > Width: Clip 10 mm (3/8")
- > Drill hole Ø: Plug 9 mm (3/8")
- > Length: 2000 mm (78 3/4")
- > Supplied with: 1 lead plug/clip

Voltage	Item No.
5 12 V	833.95.702
5 24 V	833.95.708

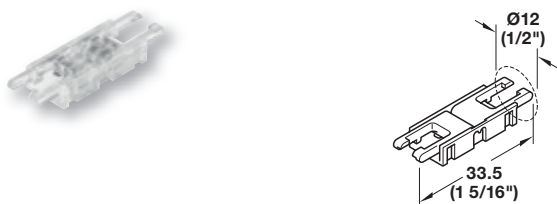
Häfele Loox5 interconnecting lead - for LED strip light multi-white, 8 mm (5/16")



- > Current carrying capacity: Max. 3.5 A
- > Type of cable: 3-wire 20 AWG
- > Width: Clip 10 mm (3/8")
- > Drill hole Ø: Clip 12 mm (1/2")
- > Supplied with: 1 lead clip/clip

Length	Item No.
50 (2")	833.89.197
500 (19 11/16")	833.89.198
2000 (78 3/4")	833.89.199

Häfele Loox5 clip connector - for LED strip light multi-white, 8 mm (5/16")



- > Current carrying capacity: Max. 3.5 A
- > Width: Clip 10 mm (3/8")
- > Drill hole Ø: Clip 12 mm (1/2")
- > Length: 33.5 mm (1 5/16")
- > Supplied with: 10 pcs.

Item No.
833.89.208

Häfele Loox5 corner connector - for LED strip light multi-white, 8 mm (5/16")



- > Current carrying capacity: Max. 3.5 A
- > L x W: 24 x 24 mm (15/16" x 15/16")
- > Supplied with: 10 pcs.

Item No.
833.89.188

Leads

For LED strip light RGB, 10 mm (3/8")



ILLUMINATING



EXTENDING



SWITCHING



NETWORKING



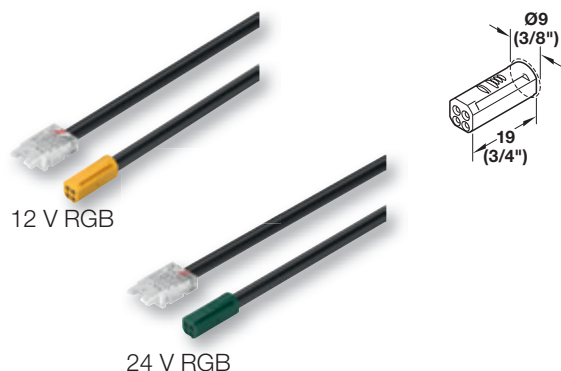
DISTRIBUTING



SUPPLYING



Häfele Loox5 lead - for LED strip light RGB, 10 mm (3/8")



- > Current carrying capacity: Max. 3.5 A
- > Type of cable: 4-wire 20 AWG
- > Width: Clip 12 mm (1/2")
- > Drill hole Ø: Plug 9 mm (3/8")
- > Length: 2000 mm (78 3/4")
- > Supplied with: 1 lead plug/clip

Voltage	Item No.
5 12 V	833.95.704
5 24 V	833.95.710

Häfele Loox5 interconnecting lead - for LED strip light RGB, 10 mm (3/8")



- > Current carrying capacity: Max. 3.5 A
- > Type of cable: 4-wire 20 AWG
- > Width: Clip 12 mm (1/2")
- > Drill hole Ø: Clip 14 mm (9/16")
- > Supplied with: 1 lead clip/clip

Length	Item No.
50 (2")	833.89.200
500 (19 11/16")	833.89.201
2000 (78 3/4")	833.89.202

Häfele Loox5 clip connector - for LED strip light RGB, 10 mm (3/8")



- > Current carrying capacity: Max. 3.5 A
- > Width: Clip 12 mm (1/2")
- > Drill hole Ø: Clip 14 mm (9/16")
- > Length: 33.5 mm (1 5/16")
- > Supplied with: 10 pcs.

Item No.
833.89.209

Häfele Loox5 corner connector - for LED strip light RGB, 10 mm (3/8")



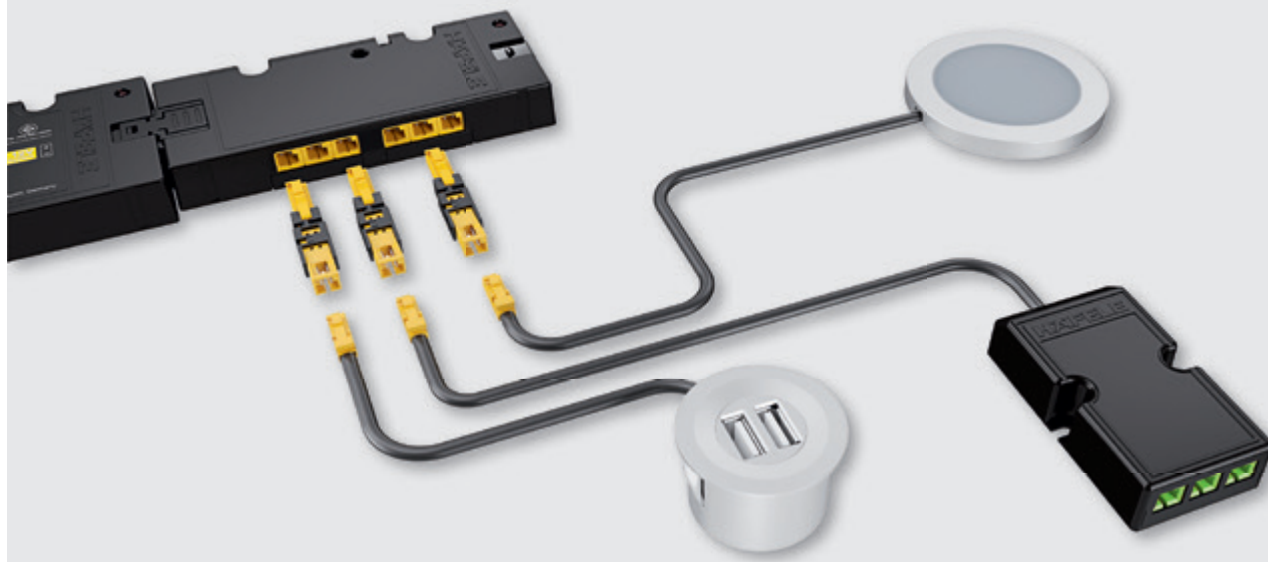
- > Current carrying capacity: Max. 3.5 A
- > L x W: 26 x 26 mm (1" x 1")
- > Supplied with: 10 pcs.

Item No.
833.89.189

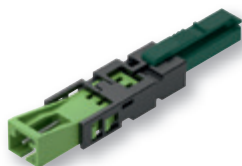
Adapter

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, color mixers for multi-white and RGB as well as electrically operated fittings, converters, etc.

> Length:

50 mm (2")

> Current carrying capacity:

Max. 3.5 A

> Drill hole Ø:

12 mm (1/2")

> Packing

6 pcs.

Device	Driver	Max. connected wattage W	Item 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-wire Loox plugs (multi-white) or 4-wire Loox plugs (RGB).

The current carrying capacity is limited to 3.5 A.

Observe maximum wattage.

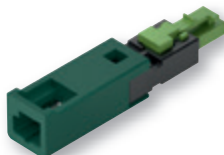
Adapter

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-wire Loox5 plug, e.g. monochrome lights, distributors, charging stations, etc.
- > Length: 45 mm (1 3/4")
- > Current carrying capacity: Max. 3.5 A
- > Drill hole Ø: 13 mm (1/2")
- > Packing: 6 pcs.

Device	Driver	Max. connected wattage W	Item 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-wire Loox5 plugs (multi-white or RGB).
The current carrying capacity is limited to 3.5 A.
Observe maximum wattage.

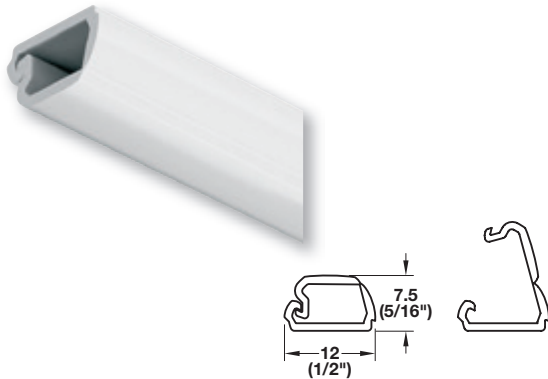
Adapter leads for LED strip lights with Loox5 clip - for connecting to Loox driver or color mixer

> Length: 2000 mm (78 3/4")

Device	Driver/color mixer	for LED strip light	Item No.
5 12 V	12 V	monochrome 5 mm (3/16")	833.72.742
		monochrome 8 mm (5/16")	833.72.716
		multi-white 8 mm (5/16")	833.72.717
		RGB 10 mm (3/8")	833.72.718
5 24 V	24 V	monochrome 5 mm (3/16")	833.75.732
		monochrome 8 mm (5/16")	833.75.705
		multi-white 8 mm (5/16")	833.75.706
		RGB 10 mm (3/8")	833.75.707

Cable routing

Häfele Loox cable channel



- > Material: Plastic
- > L x W x H: 2500 x 12 x 7.5 mm (98 7/16" x 1/2" x 5/16")
- > Application: Concealing visible cables in furniture and cabinets
- > Supplied with: 1 cable channel with adhesive tape

Color	Item No.
Black, RAL 9005	833.89.033
Brown, RAL 8007	833.89.023
White, RAL 9010	833.89.013

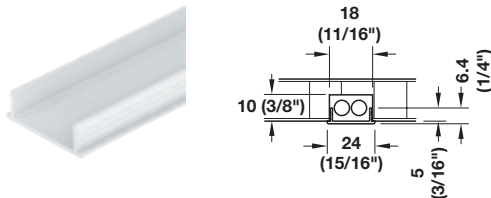
Cable management channel



- > Material: Plastic
- > L x W x H: 2438 x 36.5 x 5 mm (96" x 1 7/16" x 3/16")
- > Application: Concealing visible cables in furniture and cabinets

Color	Item No.
Tan	833.16.040
Black	833.16.041
White	833.16.042

Wire management cover - recess mounted



- > Material/Color: Plastic, white RAL 9010
- > Length: 2500 mm (98 3/8")
- > Application: Concealing visible cables in furniture and cabinets

Item No.
833.00.730

Wire management cover - recess mounted



- > Material: Plastic
- > L x W x H: 51 x 25 x 16 mm (2" x 1" x 5/8")

Color	Item No.
Black	824.19.396
White	824.19.796

Accessories

Drill bits and systems

Machine boring bit - RH



> Material: Carbide

Dimensions	Item No.
Ø 26 x 70 (1" x 2 3/4")	001.08.004
Ø 28 x 70 (1 1/8" x 2 3/4")	001.08.012
Ø 35 x 70 (1 3/8" x 2 3/4")	001.08.006
Ø 40 x 57 (1 5/8" x 2 1/4")	001.06.865

Machine boring bit - with center spur - RH



> Material: Carbide

Dimensions	Item No.
Ø 55 x 57 (2 3/16" x 2 1/4")	001.07.513
Ø 58 x 57 (2 5/16" x 2 1/4")	001.07.522
Ø 60 x 57 x 10 (2 3/8" x 2 1/4" x 3/8")	001.08.040
Ø 68 x 70 x 10 (2 11/16" x 2 3/4" x 3/8")	001.08.016

Accessories

Drill bits and systems

Drilling jig - for puck light



> Supplied with: Jig, 2 boring bits, 1 drill bit

Item No.
001.35.052

Drill bit - for puck light, with stop



> Material: M2 HSS Steel
 > Ø x L: 10 x 457 mm (3/8" x 18")
 > Supplied with: Hex key

Item No.
001.35.053



High grade steel material for increased drill life.
 Allows for deeper wire holes.

Forstner bit assembly - for puck light



> Material: HSS Steel
 > Supplied with: Adjustable depth stop, collar, hex key

Ø	Item No.
54 (2 1/8")	001.35.054
56 (2 1/4")	001.35.055



Superior Austrian quality.
 High grade steel material with patented wave cutting edge.
 Patented cutting edge drills 10x faster than standard bits.
 Modified low-profile brad point tip for flat bottom hole.

Supplying



Häfele Loox5 drivers 12 V

Wall plug drivers 12 V	> Page 123
Leads 12 V	> Page 123
Constant voltage 12 V	> Page 124
Country-specific power cords	> Page 124



Häfele Loox5 drivers 24 V

Constant voltage 24 V	> Pages 125–126
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Häfele Loox converters

Converter 24 V to 12 V	> Page 127
Converter 12 V to 24 V	> Page 127



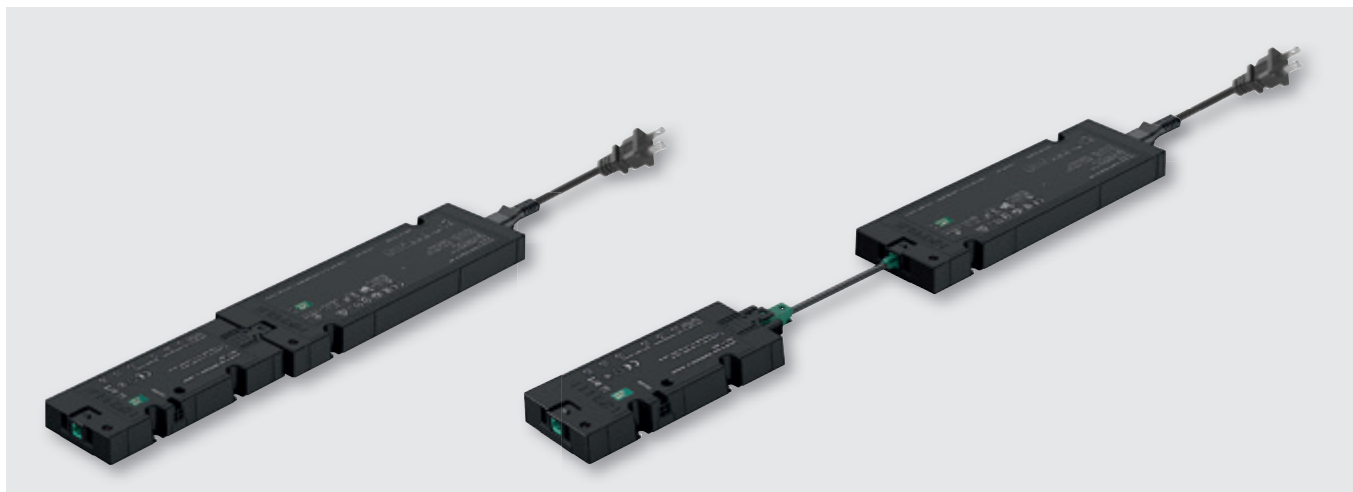
Lutron stand alone

Wall dimming controls (LV)	> Page 128
Wall plates	> Page 128
Wall dimming controls (CL)	> Page 129
Wall dimming controls (0–10 V)	> Page 130
Wall dimming controls 2 wire Caséta Pro	> Pages 131–132
Dimming LED driver 12 V	> Page 133
Hardwired driver 12 V	> Page 134
Dimming LED driver 24 V	> Page 135
Hardwired driver 24 V	> Page 136
Ecosytem® driver 24 V	> Pages 137–138
Remotes	> Page 139



Supplying

Central or decentralized supply



Central and compact

Driver with 6-way distributor via box to box plug-in connection for compact dimensions.

Decentralized

Driver at the entry point of a given socket position. Decentralized 6-way distributor via cable connection.

3-level control concept

Loox5 specializes the tasks: on the one hand, professional drivers with top performance in terms of energy efficiency, life time, overload protection, and rectification, and on the other hand, the 6-way distributor with a 3-level control concept that can be combined as desired:



Level 1

Distributor without switching function



Level 2

Distributor with switching function



Level 3

Distributor with switching function and Bluetooth® chip for the network control in the Häfele Connect Mesh

- > 6-way distributors see page 105
- > Häfele Connect Mesh 6-way distributor see page 95
- > Extension leads see page 107

Drivers

12 V

Häfele Loox wall plug driver 12 V

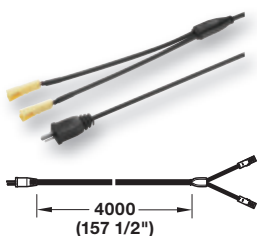


Driver 15 W US
833.74.936

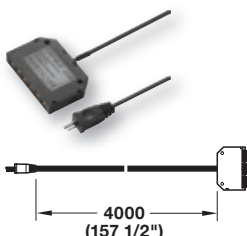
- > Material/Color: Plastic, black
- > Degree of protection: IP20
- > Input voltage: 100–240 V~; 50–60 Hz
- > Output voltage: DC 12 V
- > Standby power consumption: 0.1 W
- > Supplied with: 1 wall plug driver

Plug design/ designation	Output power W	L x W x H	Item No.
US	6	61 x 37 x 43 (2 3/8" x 1 1/2" x 1 11/16")	833.74.934
	15	78 x 46 x 54 (3 1/16" x 1 13/16" x 2 1/8")	833.74.936
	27	84 x 50 x 72 (3 5/16" x 2" x 2 7/8")	833.74.938

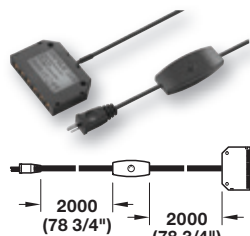
Häfele Loox leads 12 V



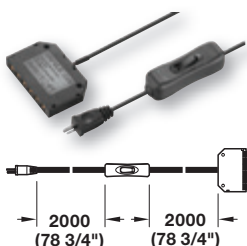
833.74.749



833.74.748



833.74.709



833.74.746

- > Length: 4000 mm (157 1/2")

12 V	Plug design/ designation	Item No.
	2.5 A/22 AWG with 2 slots	833.74.749
	2.5 A/22 AWG with 6-way distributor	833.74.748
	2.5 A/22 AWG with dimmer and 6-way distributor	833.74.709
	2.5 A/22 AWG with rocker switch and 6-way distributor	833.74.746

- > Length: 2000 mm (78 3/4")

12 V	Plug design/ designation	Item No.
	2.5 A/22 AWG with 1 slot	833.74.791



12 V 5 12 V

All sockets for 12 V Loox. Please order 6-piece adapter set 833.95.752 for Loox5 devices separately, see page 117.



Note

Loox lights and drivers are "Suitable for use within closet storage spaces"

Drivers

12 V

Häfele Loox5 driver constant voltage 12 V



- > Version: With overload protection
- > Material/Color: Plastic, black
- > Degree of protection: IP20
- > Input voltage: 100–240 V~; 50–60 Hz
- > Output voltage: DC 12 V
- > Number of connections: 1x socket Loox5 12 V
- > Life time: >70,000 hours
- > Safety: Class 2
- > Supplied with: 1 driver with mounting accessories
1 US power cord

5 12 V	Output power	Output current	Standby power consumpt.	L x W x H	Item No.
	W	A	W		
1	20	1.67	≤0.2 W	140 x 50 x 16 (5 1/2" x 2" x 5/8")	833.95.000
2	40	3.33	≤0.3 W	191 x 60 x 16 (7 1/2" x 2 3/8" x 5/8")	833.95.002
3	60	5.00	≤0.3 W	230 x 70 x 16 (9 1/16" x 2 3/4" x 5/8")	833.95.003

! 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.

! Maximum lead length from the Loox5 driver to the device is 10,000 mm (393 11/16"). 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).

! **Note**
Loox lights and drivers are "Suitable for use within closet storage spaces"

Country-specific power cords - 2000 mm (78 3/4") lead length, socket at the cable: C7

									3000 mm (118")
Plug design									
Description	US	UK	AU	EU	JP	CN	KR	US	US
Supplied with	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.
Item No.	833.89.003	833.89.000	833.89.001	833.89.002	833.89.016	833.89.005	833.89.006	833.89.050	833.89.008

Power cord - with 90° plug



- > Length: 2000 mm (78 3/4")
- > Material/Color: Plastic, black

Item No.
833.89.017



- > Material/Color: Plastic, black

Item No.
833.89.018

Drivers

24 V

Häfele Loox5 driver constant voltage 24 V



- > Version: With overload protection
- > Material/Color: Plastic, black
- > Degree of protection: IP20
- > Input voltage: 100–240 V~; 50–60 Hz
- > Output voltage: DC 24 V
- > Number of connections: 1x socket Loox5 24 V
- > Life time: >70,000 hours
- > Safety: Class 2
- > Supplied with: 1 driver with mounting accessories
1 US power cord

5 ^{24V}	Output power	Output current	Standby power consumpt.	L x W x H	Item No.
	W	A	W		
1	20	0.83	≤0.2 W	140 x 50 x 16 (5 1/2" x 2" x 5/8")	833.95.008
2	40	1.67	≤0.3 W	191 x 60 x 16 (7 1/2" x 2 3/8" x 5/8")	833.95.010
3	90	3.75	≤0.3 W	316 x 70 x 16 (12 7/16" x 2 3/4" x 5/8")	833.95.011

! Ambient temperature –25 °C to +45 °C
Ensure that there is a sufficient air supply and circulation at the mounting location.

! Maximum lead length from the Loox5 driver to the device is 10,000 mm (393 11/16"). 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).

! **Note**
Loox lights and drivers are "Suitable for use within closet storage spaces"



Country-specific power cords - 2000 mm (78 3/4") lead length, socket at the cable: C7

									3000 mm (118")
Plug design									
Description	US	UK	AU	EU	JP	CN	KR	US	US
Supplied with	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.
Item No.	833.89.003	833.89.000	833.89.001	833.89.002	833.89.016	833.89.005	833.89.006	833.89.050	833.89.008

Power cord - with 90° plug



- > Length: 2000 mm (78 3/4")
- > Material/Color: Plastic, black
- > Supplied with: 1 pc.

Item No.
833.89.017

90° plug adapter



- > Material/Color: Plastic, black
- > Supplied with: 1 pc.

Item No.
833.89.018

Drivers

24 V

Häfele Loox5 driver constant voltage 24 V



Driver 270 W, 100–120 V~
833.95.022



- > Version: With overload protection
- > Material/Color: Plastic, black
- > Degree of protection: IP20
- > Standby power consumption: <0.5 W
- > Output voltage: DC 24 V
- > L x W x H: 234 x 75 x 38 mm
(9 3/16" x 2 15/16" x 1 1/2")
- > Life time: >70,000 hours
- > Safety: Class 2
- > Supplied with: 1 driver with mounting accessories
1 US power cord

5 ^{24 V}	Input voltage	Output power	Output current	Number of connections Loox5 24 V	Item No.
		W	A		
100–120 V~: typical input voltage in US, JP, CN, TW					
4	100–120 V~, 50–60 Hz	270 (3 x 90)	3 x 3.75	3x socket	833.95.022

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

! Ambient temperature –25 °C to +45 °C (270 W: 40 °C)
Ensure that there is a sufficient air supply and circulation at the mounting location.

! Maximum lead length from the Loox5 driver to the device is 10,000 mm (393 11/16"). 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).

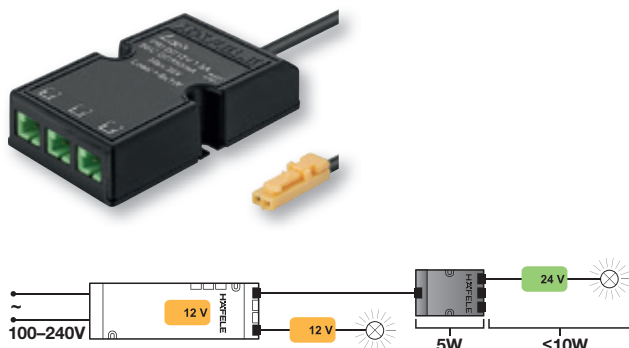
! **Note**
Loox lights and drivers are "Suitable for use within closet storage spaces"

Country-specific power cords - 2000 mm (78 3/4") lead length, socket at the cable: C13

Plug design										
Description	UK	AU	EU	US	JP	CN	KR	TW	EU	US
Supplied with	1 pc.	1 p.c	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.
Item No.	833.89.256	833.89.257	833.89.258	833.89.259	833.89.260	833.89.261	833.89.262	833.89.263	833.89.265	833.89.264

Converters

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



12 V 5 12 V

Loox5 12 V driver see page 124.
Please order 6-piece adapter set
833.95.753 separately, see page 116.

- > Application: Connecting 24 V lights to the 12 V system
- > Wattage: Input 15 W, output 10 W
- > Standby power consumption W: 0.3
- > Primary side: DC 12 V
- > Secondary side: DC 24 V
- > Number of output ports: 3 connections for 24 V lights
- > L x W x H: 61 x 34 x 15 mm
(2 3/8" x 1 5/16" x 9/16")
- > Supplied with: 1 converter with 200 mm (7 7/8") lead

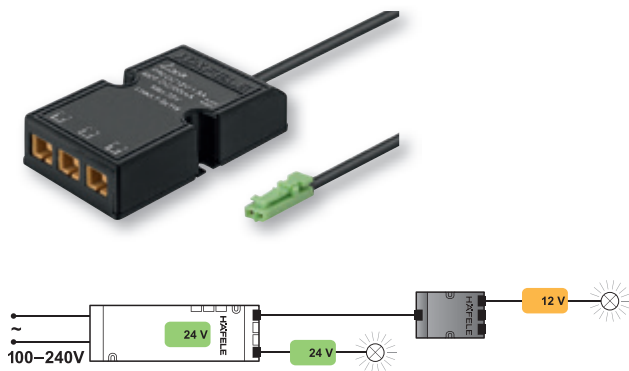
Item No.

833.77.934



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



24 V 5 24 V

Loox5 24 V driver see page 125.
Please order 6-piece adapter set
833.77.838 separately, see page 116.

- > Application: Connecting 12 V lights to the 24 V system
- > Wattage: Input 15 W, output 10 W
- > Standby power consumption W: 0.3
- > Primary side: DC 24 V
- > Secondary side: DC 12 V
- > Number of output ports: 3 connections for 12 V lights
- > L x W x H: 61 x 34 x 15 mm
(2 3/8" x 1 5/16" x 9/16")
- > Supplied with: 1 converter with 200 mm (7 7/8") lead

Item No.

833.74.947



Maximum possible connected rating of 10 W per converter.

Lutron stand alone

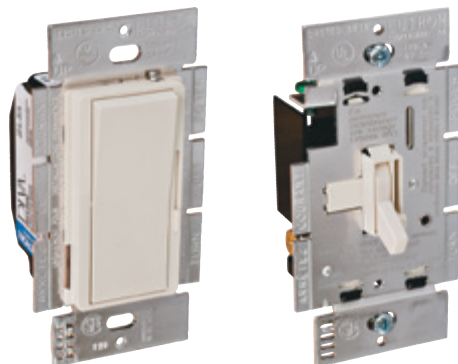
Wall dimming controls 2 wire low voltage (LV)

0% 100%

Wall dimming controls - 110-120 VAC

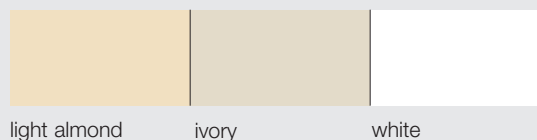
Diva

Ariadni



- > Material: Plastic, Aluminum
- > Wattage: 600
- > L x W x H: 115 x 57 x 55 mm (4 1/2" x 2 1/4" x 2 3/16")
- > Supplied with: Mounting screws, wire nuts, installation instructions

Color	Diva	Ariadni
Light almond	820.66.452	820.66.455
Ivory	820.66.652	820.66.655
White	820.66.752	820.66.755



Wall plates

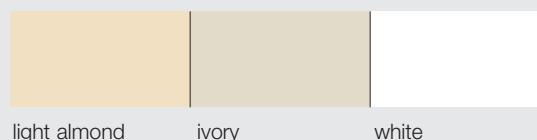
Diva

Ariadni



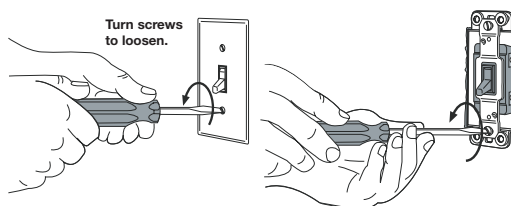
- > Material: Plastic
- > L x W x H: 120 x 70 x 10 mm (4 3/4" x 2 3/4" x 3/8")
- > Supplied with: Mounting screws, cover plate

Color	Diva	Ariadni
Light almond	820.66.453	820.66.456
Ivory	820.66.653	820.66.656
White	820.66.753	820.66.756



- !** Control multiple LED light bars, LED strip lights and pucks up to 600 W.
Great for dining rooms, bedrooms, bathrooms, and kitchens.
Dimming offers energy savings over standard wall switches.
Dimming to 1% with smooth, continuous, flicker-free performance.
Arrives ready to install.
Input voltage: 110 - 120 VAC, 60 Hz, 600 VA / 450 W
Operate between 32 °F (0 °C) and 104 °F (40 °C).
0% to 90% humidity, non-condensing
12 VDC E-Series drivers see page 134.
24 VDC E-Series drivers see page 136.
Lutron drivers see pages 133, 135, 137, 138.

- !** For installation by a qualified electrician in accordance with all local and national electrical codes. Use copper conductors only. For indoor use only. Check to see that the driver type and rating are suitable for the application. **Compatible with E-series and Lutron Low Voltage Drivers.** DO NOT install if product has any visible damage. If moisture or condensation is evident, allow the product to dry completely before installation.



Lutron stand alone

Wall dimming controls 2 wire forward phase (CL)



ILLUMINATING



EXTENDING



SWITCHING



NETWORKING



DISTRIBUTING



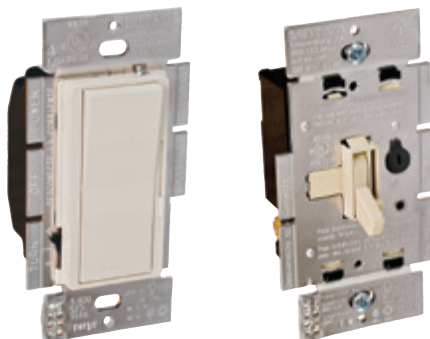
SUPPLYING



Diva and Ariadni wall dimming controls

Diva

Ariadni



- > Material: Plastic, Aluminum
- > Wattage: 150
- > L x W x H: 115 x 57 x 55 mm (4 1/2" x 2 1/4" x 2 3/16")
- > Supplied with: Mounting screws, wire nuts, installation instructions

Color	Diva	Ariadni
Light almond	820.66.451	820.66.454
Ivory	820.66.651	820.66.654
White	820.66.751	820.66.754



Diva and Ariadni wall plates

Diva

Ariadni



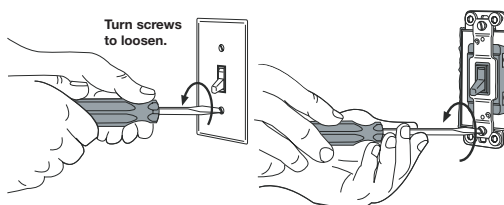
- > Material: Plastic
- > L x W x H: 120 x 70 x 10 mm (4 3/4" x 2 3/4" x 3/8")
- > Supplied with: Mounting screws, cover plate

Color	Diva	Ariadni
Light almond	820.66.453	820.66.456
Ivory	820.66.653	820.66.656
White	820.66.753	820.66.756



! Control up to 150 W of LED light bars, LED strip lights or pucks. Great for dining rooms, bedrooms, bathrooms, closets and kitchens. Dimming offers energy savings over standard wall switches. Dimming to 1% with smooth, continuous, flicker-free performance. Arrives ready to install. Input voltage: 110 - 120 VAC, 60 Hz. Operate between 32 °F (0 °C) and 104 °F (40 °C). 0% to 90% humidity, non-condensing. 12 VDC E-Series drivers see page 134. 24 VDC E-Series drivers see page 136. Lutron drivers see pages 133, 135, 137, 138.

! For installation by a qualified electrician in accordance with all local and national electrical codes. Use copper conductors only. For indoor use only. Check to see that the driver type and rating are suitable for the application. **Compatible with E-series and Lutron Low Voltage Drivers.** DO NOT install if product has any visible damage. If moisture or condensation is evident, allow the product to dry completely before installation.



Lutron stand alone

Wall dimming controls 2-conductor signal wire (0-10 V)

0% 100%

Diva wall dimmers



Color	Item No.
Light almond	820.66.450
Ivory	820.66.650
White	820.66.750



Diva wall plates

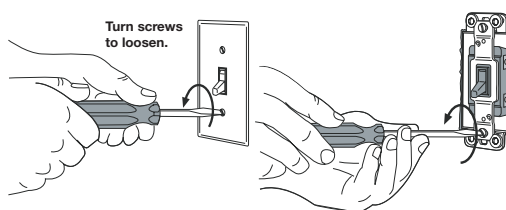


Color	Item No.
Light almond	820.66.453
Ivory	820.66.653
White	820.66.753



Great for dining rooms, bedrooms, bathrooms, closets and kitchens. Dimming offers energy savings over standard wall switches. Dimming to 1% with smooth, continuous, flicker-free performance. Arrives ready to install. Works with Loox Dimmer Interface Module and Loox Driver to offer secondary side dimming. Operate between 32 °F (0 °C) and 104 °F (40 °C). 0% to 90% humidity, non-condensing 12 VDC Loox drivers see page 124. 24 VDC Loox drivers see pages 125–126. Loox dimmer Interface see page 91. Leads see pages 125–127.

For installation by a qualified electrician in accordance with all local and national electrical codes. Use copper conductors only. For indoor use only. Check to see that the driver type and rating are suitable for the application. **Compatible with Loox Driver and Loox Dimmer Interface Module.** DO NOT install if product has any visible damage. If moisture or condensation is evident, allow the product to dry completely before installation.



Lutron stand alone

Wall dimming controls 2 wire Caséta Pro



ILLUMINATING



EXTENDING



SWITCHING



NETWORKING



DISTRIBUTING



SUPPLYING

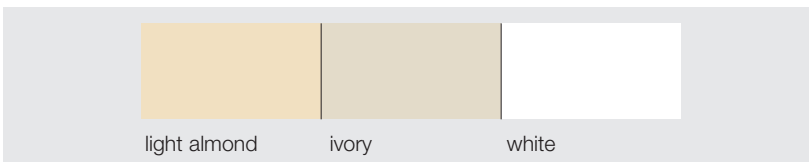


Diva wall dimmers



- > Material: Plastic, Aluminum
- > Wattage: 250
- > L x W x H: 115 x 57 x 55 mm (4 1/2" x 2 1/4" x 2 3/16")
- > Supplied with: Mounting screws, wire nuts, installation instructions

Color	Item No.
Light almond	820.66.400
Ivory	820.66.410
White	820.66.780

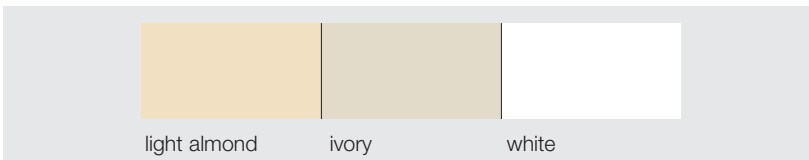


Diva wall plates



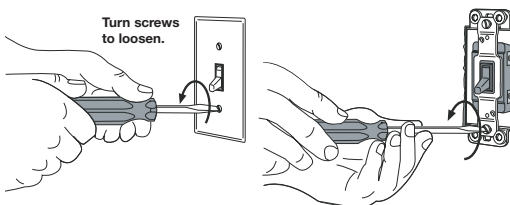
- > Material: Plastic
- > L x W x H: 120 x 70 x 10 mm (4 3/4" x 2 3/4" x 3/8")
- > Supplied with: Mounting screws, cover plate

Color	Item No.
Light almond	820.66.453
Ivory	820.66.653
White	820.66.753



! Control multiple LED light bars, LED strip lights and pucks up to 250 W. Great for dining rooms, bedrooms, bathrooms, closets and kitchens. Dimming to 1% offers energy savings over standard wall switches. Single pole/multi-location 250 W dimmable LED/CFL 1000 W incandescent/halogen; 1000 VA MLV Neutral optional 434 MHz Works with Remote and Gateway for multiple Control locations. Operate between 32 °F (0 °C) and 104 °F (40 °C). 0% to 90% humidity, non-condensing 12 VDC E-Series drivers see page 134. 24 VDC E-Series drivers see page 136. Lutron drivers see pages 133, 135, 137, 138.

! For installation by a qualified electrician in accordance with all local and national electrical codes. Use copper conductors only. For indoor use only. Check to see that the driver type and rating are suitable for the application. **Compatible with E-series and Lutron Low Voltage Drivers.** DO NOT install if product has any visible damage. If moisture or condensation is evident, allow the product to dry completely before installation.



Lutron stand alone

Caséta wall dimmer

0% 100%

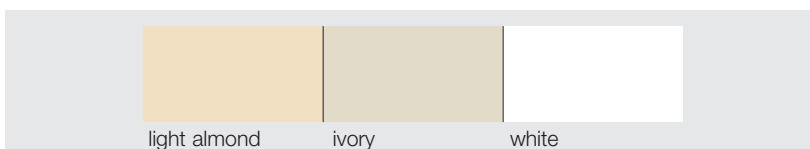
Remote control - for Caséta wall dimmer



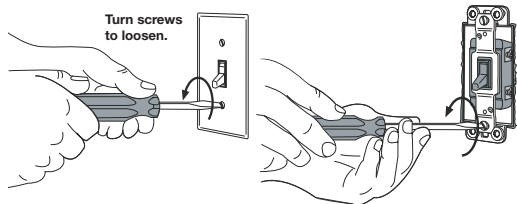
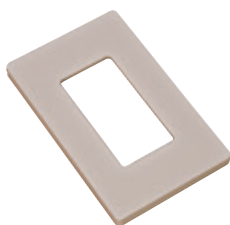
- > Material: Plastic
- > W x H x D: 67 x 33 x 8 mm (2 5/8" x 1 5/16" x 5/16")
- > Supplied with: CR2032 battery

- ! Dimming control 4-button with raise/lower and light icon engraving. 434 MHz
- Pair additional remotes to main wall dimmer for added dimming control locations.
- 3 V - 10 mA
- Uses single CR 2032 battery

Color	Item No.
Light almond	825.73.771
Ivory	825.73.772
White	825.73.770



Diva wall plate



- > Material: Plastic
- > L x W x H: 120 x 70 x 10 mm (4 3/4" x 2 3/4" x 3/8")
- > Supplied with: Mounting screws, cover plate

Color	Item No.
Light almond	820.66.453
Ivory	820.66.653
White	820.66.753



- + **Gateway smart bridge for Caséta Pro, 5 V**
- > Material/Color: Plastic, white
- > W x H x D: 70 x 70 x 30 mm (2 3/4" x 2 3/4" x 1 3/16")
- > Supplied with: 120 V-5 V, 300 mA power supply

Item No.
830.69.887

- + **Mounting bracket for remote control**
- > Allows for easy installation of a remote control over an existing wall box or directly on any wall surface.
- > Material/Color: Plastic, clear
- > W x H x D: 95 x 35 x 10 mm (3 3/4" x 1 3/8" x 3/8")

Item No.
825.73.775

- ! Enables control of lights, shades, and temperature using the Lutron App. Compatible with Caséta® Wireless dimmers and switches, Serena® battery-powered shades, Lutron Wireless Thermostat, Nest Learning Thermostat, and select Honeywell® Wi-Fi thermostats. Easy to install; just plugs into your Wi-Fi router. Uses Clear Connect® wireless technology— no callbacks.

- ! **Lutron App for Smart Devices**
- Works in conjunction with the Caséta® Pro Wall Dimmer and Smart Bridge PRO.
- Control individual lights, shades, and thermostats - even when you're away from home.
- Add scenes to control multiple lights and shades with a single touch.
- Schedule scenes to adjust lights and shades automatically.
- Download for free from the App Store® or Google Play™.

Lutron

Dimming LED driver

0% 100%

12 V driver

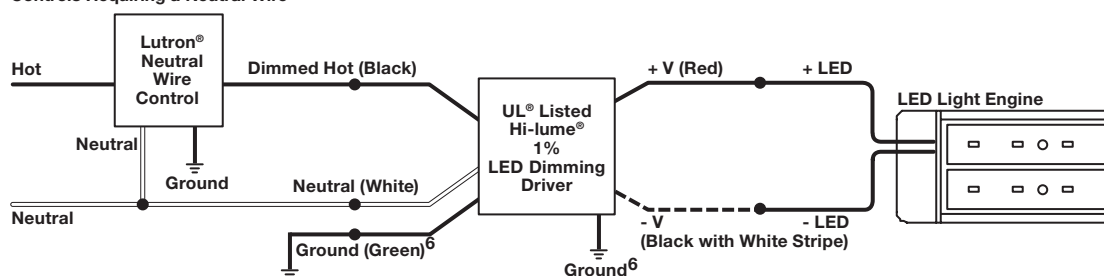


- > Wattage: 40
- > Input voltage: 110–120 VAC
- > Output voltage: 12 VDC
- > W x H x D: 124 x 100 x 68 mm
(4 7/8" x 4" x 2 5/8")

Item No.

833.02.961

Controls Requiring a Neutral Wire



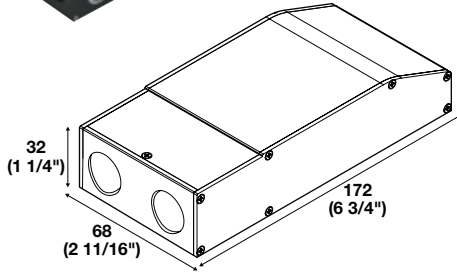
- ! Control multiple LED light bars, LED strip lights and pucks up to 40 W.
10 W minimum load.
Remote mount driver up to 40 ft. away from LED source for 12 V option.
Provided on a junction box for easy installation and wire termination.
Dimming to 1% with smooth, continuous, flicker-free performance.
Class 2 protection device.
Arrives ready to install.
Operate between 32 °F (0 °C) and 104 °F (40 °C).
0% to 90% humidity, non-condensing.
Hi-lume 1% LED dimming drivers offer a filtered, regulated power source that works well with LED solid state lights.
3 wire eco-systems driver solutions are available upon request.

- ! For installation by a qualified electrician in accordance with all local and national electrical codes. For indoor use and copper conductors only. Check to see that the driver type and rating are suitable for the application.
Compatible with CL Dimmers and other Lutron Dimmers and Systems. DO NOT install if product has any visible damage. If moisture or condensation is evident, allow the product to dry completely before installation.

Hardwired driver

12 V

Dimmable E-series driver



- > Material/Finish: Aluminum, black
- > L x W x H: 172 x 69 x 32 mm
(6 3/4" x 2 11/16" x 1 1/4")

Max. load	Output current	Item No.
20 W	1.67 A	833.02.964
40 W	3.33 A	833.02.963
60 W	5 A	833.02.962

- Output Voltage: 12 VDC
- Input Voltage: 120 V 60 Hz
- Degree of protection: Nema 3R enclosure type
- Hard wired by licensed electrician only.
- Dimmable with any standard MLV/CL (Triac) Forward Phase Dimmer Switch.
- Class 2 low voltage power supply.
- 8 W min load

Distribution block - with 6 ports



- > Material/Color: Plastic, black
- > Supplied with: Mounting hardware

Item No.
833.02.748

- 6-way distribution block with bare wire ends.
- 20 AWG cable
- Add to any hardwired dimmable driver to turn output into modular connectors to Loox lights.
- Wires are marked for polarity.

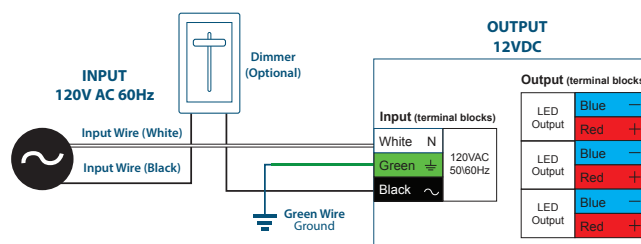
High output dimmable LED driver



- 3 x 60 W independent output circuits.
- Hard wired by licensed electrician only.
- Dimmable with any standard MLV/CL/Incandescent (Triac) Forward Phase Dimmer Switch.
- Class 2 low voltage power supply.
- Auto-reset protection for short circuits and over-voltage.
- Easy installation using terminal blocks.
- 8 W min per circuit

- > Material/Finish: Steel, white
- > Input voltage: 120 V 60 Hz
- > Output voltage: 12 VDC
- > Max. load: 180 W
- > Output current: 15 A
- > Degree of protection: Nema 3R enclosure type
- > L x W x H: 279.4 x 304.8 x 54 mm
(11" x 12" x 2.13")

Item No.
833.02.927



Lutron

Dimming LED driver



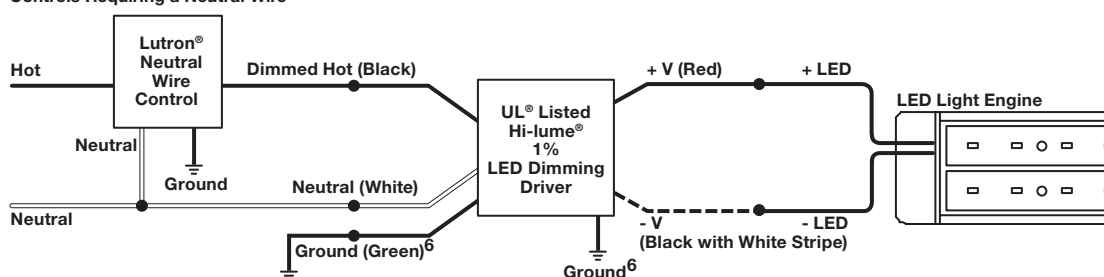
24 V driver



- > Wattage: 40
- > Input voltage: 110–120 VAC
- > Output voltage: 24 VDC
- > W x H x D: 124 x 100 x 68 mm
(4 7/8" x 4" x 2 5/8")
- > Supplied with: Driver, double gang box, wire nuts, instructions

Item No.
833.05.905

Controls Requiring a Neutral Wire



Control multiple LED light bars, LED strip lights and pucks up to 40 W.
10 W minimum load.
Remote mount driver up to 40 ft. away from LED source for 24 V option.
Provided on a junction box for easy installation and wire termination.
Dimming to 1% with smooth, continuous, flicker-free performance.
Class 2 protection device.
Arrives ready to install.
Operate between 32 °F (0 °C) and 104 °F (40 °C).
0% to 90% humidity, non-condensing.
Hi-lume 1% LED dimming drivers offer a filtered, regulated power source that works well with LED solid state lights.
24 VDC 96 W driver available upon request.

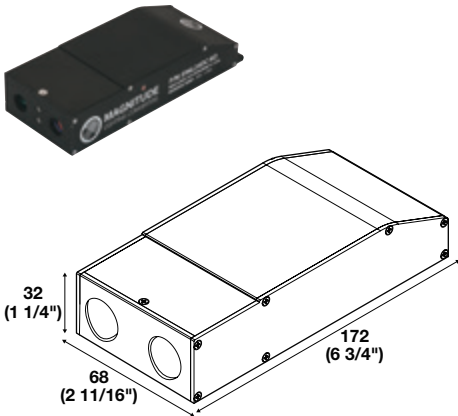


For installation by a qualified electrician in accordance with all local and national electrical codes. For indoor use and copper conductors only. Check to see that the driver type and rating are suitable for the application.
Compatible with CL Dimmers and other Lutron Dimmers and Systems. DO NOT install if product has any visible damage. If moisture or condensation is evident, allow the product to dry completely before installation.

Hardwired driver

24 V

Dimmable E-series driver



- > Material/Finish: Aluminum, black
- > L x W x H: 172 x 69 x 32 mm
(6 3/4" x 2 11/16" x 1 1/4")

Max. load	Output current	Item No.
20 W	0.83 A	833.02.970
40 W	1.66 A	833.02.969
60 W	2.5 A	833.02.968
75 W	3.13 A	833.02.967
96 W	4.0 A	833.02.966

- Output Voltage: 24 VDC
- Input Voltage: 120 V 60 Hz
- Degree of protection: Nema 3R enclosure type
- Hard wired by licensed electrician only.
- Dimmable with any standard MLV/CL (Triac) Forward Phase Dimmer Switch.
- Class 2 low voltage power supply.
- 8 W min load.

Distribution block - with 6 ports



- > Material/Color: Plastic, black
- > Supplied with: Mounting hardware

Item No.
833.05.797

- 6-way distribution block with bare wire ends.
- 20 AWG cable
- Add to any hardwired dimmable driver to turn output into modular connectors to Loox lights.
- Wires are marked for polarity.

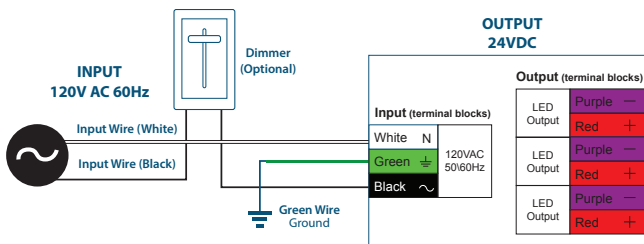
High output dimmable LED driver



- 3 x 96 W independent output circuits.
- Hard wired by licensed electrician only.
- Dimmable with any standard MLV/CL/ Incandescent.
- (Triac) Forward Phase Dimmer Switch.
- Class 2 low voltage power supply.
- Auto-reset protection for short circuits and over-voltage.
- Easy installation using terminal blocks.
- 8 W min per circuit.

- > Material/Finish: Steel, white
- > Input voltage: 120 V 60 Hz
- > Output voltage: 24 VDC
- > Max. load: 288 W
- > Output current: 12 A
- > Degree of protection: Nema 3R enclosure type
- > L x W x H: 279.4 x 304.8 x 54 mm
(11" x 12" x 2.13")

Item No.
833.02.928



Lutron

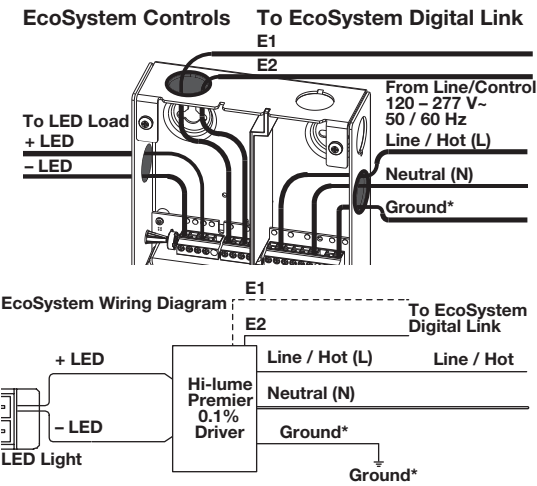
LED driver

EcoSystem® 3-wire driver



- > Mounting: Surface
- > Dimming: 100%–1%
- > Material/Finish: Steel, white
- > Supplied with: Wire connection, mounting hardware, instructions

Voltage	Output Voltage	Input Voltage	Item No.
5 12 V	12 VDC, 2–40 W	120–277 VAC, 50–60 Hz, 1A	833.02.965
5 24 V	24 VDC, 2–96 W	120–277 VAC, 50–60 Hz	833.02.929



! Control methods: Ecosystem® smart digital control, 3-wire control Soft-on, fade-to-black dimming technology (Ecosystem® control only) Rated lifetime: 50,000 hours at 40° C (104° F) ambient temperature.

Compliance: UL Listed for United States and Canada, NOM certified, FCC part 15 for residential and commercial applications, NEMA 410, RoHS.

Control lights wirelessly from multiple locations.

Allows the freedom for multiple dimmer placements within a room. Add cabinet light controls right alongside existing rooms controls. Smooth, flicker-free dimming from 100% down to 1%.

Provides immunity to electrical noise that can cause flicker at low noise levels.

Integrates into a planned or existing EcoSystem® or Vive™ lighting control solution.

Control terminals protect from miswiring up to 277V.

Remote mount up to 100' from the light source.

Non-volatile memory restores all settings after power failure.

Precision microprocessor control and integral thermal management deliver energy savings and extended product life (rated 50,000 hours).

100% performance tested at factory.

Note

Drivers and receivers must be installed by licensed electrician and are subject to applicable national, state and local electrical codes. Use in conjunction with wireless receiver (sold separately). Controlled by wireless remote (sold separately).

- ➡ Wireless receiver see page 138.
- ➡ Wireless remote see page 132.

Dimensional data not binding. Dimensions in mm, inches are approximate. We reserve the right to alter specifications without notice.



Lutron

LED driver

Wireless receiver - required



- > Material/Color: Plastic, white
- > Output voltage: 120 VAC
- > Mounting: Surface/threaded

	Item No.
	833.01.818



Controls up to 3 Ecosystem[®] drivers.

Uses Lutron Clear Connect® RF technology.

Designed to give a linear response to changes in viewed light level.

2 wire connection between optional sensor and control module –

the wires are interchangeable to eliminate miswiring.

Programmed rapid start design ensures full rated lamp life.

Lamps turn on to any dimmed level without flashing to full

brightness.

End-of-lamp-life protection circuitry ensures safe operation.

Ultra-quiet operation

Non-volatile memory restores all ballast settings after power failure.

100% performance tested at factory.

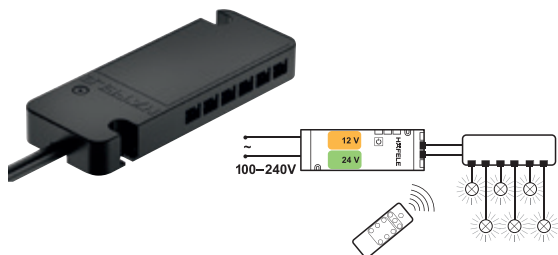
Note

Drivers and receivers must be installed by licensed electrician and are subject to applicable national, state and local electrical codes.

Accessories

Remotes

Premium 6-channel remote receiver



- > Material/Finish: Aluminum, black
- > L x W x H: 172 x 69 x 32 mm
(6 3/4" x 2 11/16" x 1 1/4")

System	Wattage (W)	Max. wattage per slot (W)	Item No.
12 V	60	30	833.73.741
24 V	90	60	833.77.785

- ! White LED lights can be remote controlled with this system.
Remote system requires at least 1 remote and 6-channel receiver to control lights.
Three lighting scenes can be stored.
Remote switches can be added that are compatible with both the 12 V and the 24 V system.

Max. 10 remote receivers can be combined.
Light state and scene stored in memory and recalled upon start up.

Note

Not suitable for multi-white or RGB lights.

Premium 6-channel remote



- > Application: 12 V and 24 V system
- > Material/Color: Plastic, black
- > Supplied with: Replaceable CR2032 lithium battery

Item No.
833.89.121

- ! For controlling Loox 6-channel remote receivers for white LEDs.
Soft on/off with dimming function for 6 channels.
3 lighting scenes can be stored.
Max. 10 remote receivers can be controlled within a radius of 15 m (49').

Remote switch 12 V/24 V - recess mounted



- > Drill hole Ø x H: 40 x 14.4 mm (1 5/8" x 9/16")
- > Material/Color: Plastic, silver colored
- > Supplied with: Replaceable CR2032 lithium battery

Item No.
833.89.122

- ! For controlling all channels or one channel of Loox remote receiver for white LEDs.
Soft on/off and dimming.
Max. 10 remote receivers can be controlled within a radius of 15 m (49').

+ Housing for surface mounting

> Round for screw mounting



Item No.
833.89.123






Coin battery, lithium-ion, CR2032 - for remotes, CR2430 - for wall switch



Item No.
CR2032 002.99.032
CR2430 002.99.034

LED strip lights

Technical data, monochrome 5 mm / 8 mm

	Voltage	Model	Quantity	Color temperature	Illuminance					Wattage		
	V	Häfele Loox5	LEDs/m	K	lx	Distance	250 mm	500 mm	750 mm	1000 mm	W/m	
							(9 13/16")	(19 11/16")	(29 1/2")	(39 3/8")		
LED strip lights monochrome, 5 mm												
	5 12V	LED 2060	120	2700	940			400	220	135	4.8	
				3000	970			420	235	145	4.8	
				4000	1000		☀	430	240	145	4.8	
				5000	1030			430	240	145	4.8	
		LED 2061	120	2700	1860			790	440	270	9.6	
				3000	1960		☀	850	470	290	9.6	
				4000	2000			860	480	290	9.6	
				5000	2060			860	480	290	9.6	
	5 24V	LED 3040	120	2700	940			400	220	135	4.8	
				3000	970		☀	420	235	145	4.8	
				4000	1000			430	240	145	4.8	
				5000	1030			430	240	145	4.8	
		LED 3041	120	2700	1860			790	440	270	9.6	
				3000	1960		☀	850	470	290	9.6	
				4000	2000			860	480	290	9.6	
				5000	2060			860	480	290	9.6	
LED strip lights monochrome, 8 mm												
	5 12V	LED 2062	60	2700	1050			435	240	145	4.8	
				3000	1090		☀	455	245	150	4.8	
				4000	1120			460	260	155	4.8	
				5000	1130			470	260	160	4.8	
		LED 2065	120	2700	1050			435	240	145	4.8	
				3000	1090		☀	455	245	150	4.8	
				4000	1120			460	260	155	4.8	
				5000	1130			470	260	160	4.8	
	5 24V	LED 2068	120	2700	2145			900	480	300	9.6	
				3000	2250		☀	940	505	310	9.6	
				4000	2300			950	510	320	9.6	
				5000	2300			955	515	320	9.6	
		LED 3042	120	2700	1050			435	240	145	4.8	
				3000	1090		☀	455	245	150	4.8	
				4000	1120			460	260	155	4.8	
				5000	1130			470	260	160	4.8	
	5 24V	LED 3045	120	2700	2145			900	480	300	9.6	
				3000	2250		☀	940	505	310	9.6	
				4000	2300			950	510	320	9.6	
				5000	2300			955	515	320	9.6	
		LED 3048	120	2700	2870			1210	665	415	14.4	
				3000	3000		☀	1270	695	430	14.4	
				4000	3100			1310	715	445	14.4	
				5000	3100			1320	715	450	14.4	

*See page 158 for conversion chart.







Luminous flux	Luminous efficacy	Section length	Color rendering index CRI	Available length	Max. strip length (visual)	Max. strip length wattage-dependent on the Loox5 driver				
							5 m (196 7/8")	15 m (590 9/16")	50 m (1968 1/2")	
lm/m	lm/W	mm	R _a	R _g	m	20 W	40 W	60 W	90W	
*	*									
440	92	25 (1")	>90	>50	833.74.320	833.74.324	—	4.0 (154 1/2")		
460	96	25 (1")	>90	>50	833.74.321	833.74.325	—	4.0 (154 1/2")	4.10	8.30
480	100	25 (1")	>90	>50	833.74.322	833.74.326	—	4.0 (154 1/2")		12.50
495	103	25 (1")	>90	>50	833.74.323	833.74.327	—	4.0 (154 1/2")		—
870	91	25 (1")	>90	>50	833.74.328	833.74.332	—	3.0 (118 1/8")		
830	97	25 (1")	>90	>50	833.74.329	833.74.333	—	3.0 (118 1/8")	2.00	4.10
955	99	25 (1")	>90	>50	833.74.330	833.74.334	—	3.0 (118 1/8")		6.20
990	103	25 (1")	>90	>50	833.74.331	833.74.335	—	3.0 (118 1/8")		—
440	92	50 (2")	>90	>50	833.76.300	833.76.304	—	8.0 (314 15/16")		
460	96	50 (2")	>90	>50	833.76.301	833.76.305	—	8.0 (314 15/16")	4.10	8.30
480	100	50 (2")	>90	>50	833.76.302	833.76.306	—	8.0 (314 15/16")		—
495	103	50 (2")	>90	>50	833.76.303	833.76.307	—	8.0 (314 15/16")		18.70
870	91	50 (2")	>90	>50	833.76.308	833.76.312	—	5.5 (216 9/16")		
930	97	50 (2")	>90	>50	833.76.309	833.76.313	—	5.5 (216 9/16")	2.00	4.10
955	99	50 (2")	>90	>50	833.76.310	833.76.314	—	5.5 (216 9/16")		—
990	103	50 (2")	>90	>50	833.76.311	833.76.315	—	5.5 (216 9/16")		9.30
440	92	50 (2")	>90	>50	833.74.336	—	833.74.340	6.0 (236 1/4")		
465	97	50 (2")	>90	>50	833.74.337	—	833.74.341	6.0 (236 1/4")	4.10	8.30
490	102	50 (2")	>90	>50	833.74.338	—	833.74.342	6.0 (236 1/4")		12.50
495	103	50 (2")	>90	>50	833.74.339	—	833.74.343	6.0 (236 1/4")		—
440	92	25 (1")	>90	>50	833.74.354	—	833.74.358	6.0 (236 1/4")		
465	97	25 (1")	>90	>50	833.74.355	—	833.74.359	6.0 (236 1/4")	4.10	8.30
490	102	25 (1")	>90	>50	833.74.356	—	833.74.360	6.0 (236 1/4")		12.50
495	103	25 (1")	>90	>50	833.74.357	—	833.74.361	6.0 (236 1/4")		—
920	96	25 (1")	>90	>50	833.74.362	—	833.74.366	4.0 (154 1/2")		
970	101	25 (1")	>90	>50	833.74.363	—	833.74.367	4.0 (154 1/2")	2.00	4.10
1000	104	25 (1")	>90	>50	833.74.364	—	833.74.368	4.0 (154 1/2")		6.20
1040	108	25 (1")	>90	>50	833.74.365	—	833.74.369	4.0 (154 1/2")		—
440	92	50 (2")	>90	>50	833.76.316	—	833.76.320	12.0 (472 7/16")		
465	97	50 (2")	>90	>50	833.76.317	—	833.76.321	12.0 (472 7/16")	4.10	8.30
490	102	50 (2")	>90	>50	833.76.318	—	833.76.322	12.0 (472 7/16")		—
495	103	50 (2")	>90	>50	833.76.319	—	833.76.323	12.0 (472 7/16")		18.70
920	96	50 (2")	>90	>50	833.76.334	—	833.76.338	8.0 (314 15/16")		
970	101	50 (2")	>90	>50	833.76.335	—	833.76.339	8.0 (314 15/16")	2.00	4.10
1000	104	50 (2")	>90	>50	833.76.336	—	833.76.340	8.0 (314 15/16")		—
1040	108	50 (2")	>90	>50	833.76.337	—	833.76.341	8.0 (314 15/16")		9.30
1270	88	50 (2")	>90	>50	833.76.352	—	833.76.356	6.2 (244 1/8")		
1305	91	50 (2")	>90	>50	833.76.353	—	833.76.357	6.2 (244 1/8")	1.30	2.70
1340	93	50 (2")	>90	>50	833.76.354	—	833.76.358	6.2 (244 1/8")		—
1430	99	50 (2")	>90	>50	833.76.355	—	833.76.359	6.2 (244 1/8")		6.20



For quick selection of linear light, see page 2

LED strip lights

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

	Voltage	Model	Quantity	Color temperature	Illuminance					Wattage		
	V	Häfele Loox5	LEDs/m	K	lx	Distance	250 mm (9 13/16")	500 mm (19 11/16")	750 mm (29 1/2")	1000 mm (39 3/8")	W/m	
LED strip lights monochrome constant current 8 mm												
	5 12 V	LED 2077	120	2700	1775						*	
				3000	1850		760	425	265	9.6		
				4000	1950	☀	790	440	270	9.6		
					830	465	285	9.6				
					830	465	285	9.6				
	5 24 V	LED 3050	140	2700	2050			890	490	305	9.6	
				3000	2150	☀	930	520	325	9.6		
				4000	2205		990	545	335	9.6		
				5000	2340		1010	550	340	9.6		
		LED 3051	140	2700	3150			1365	760	470	14.4	
				3000	3170	☀	1385	770	480	14.4		
				4000	3190		1390	770	480	14.4		
				5000	3200		1400	770	480	14.4		
		LED 3052	140	2700	4070			1750	970	600	19.2	
				3000	4160	☀	1780	990	620	19.2		
				4000	4220		1800	1000	625	19.2		
				5000	4260		1840	1020	630	19.2		
LED silicone strip lights monochrome, 8 mm												
	5 12 V	LED 2063	60	2700	920			390	215	135	4.8	
				3000	960	☀	410	225	140	4.8		
				4000	975		415	230	145	4.8		
				5000	1010		425	235	145	4.8		
	5 24 V	LED 3043	120	2700	920			390	215	135	4.8	
				3000	960	☀	410	225	140	4.8		
				4000	975		415	230	145	4.8		
				5000	1010		425	235	145	4.8		
		LED 3046	120	2700	1855			790	435	270	9.6	
				3000	1895	☀	805	445	275	9.6		
				4000	1960		840	465	290	9.6		
				5000	2020		860	475	295	9.6		

*See page 158 for conversion chart.






Luminous flux	Luminous efficacy	Section length	Color rendering index CRI		Available length			Max. strip length (visual)	Max. strip length wattage-dependent on the Loox5 driver			
lm/m	lm/W	mm	R _a	R ₉	5 m (196 7/8")	15 m (590 9/16")	50 m (1968 1/2")	m	20 W	40 W	60 W	90W
*	*											
810	84	25 (1")	>90	>50	833.74.372	–	833.74.376	6.2 (244 1/8")	2.00	4.10	6.20	–
860	90	25 (1")	>90	>50	833.74.373	–	833.74.377	6.2 (244 1/8")				
900	94	25 (1")	>90	>50	833.74.374	–	833.74.378	6.2 (244 1/8")				
905	94	25 (1")	>90	>50	833.74.375	–	833.74.379	6.2 (244 1/8")				
945	98	50 (2")	>90	>50	833.76.362	–	833.76.366	9.0 (354 5/16")	2.00	4.10	–	9.30
1030	107	50 (2")	>90	>50	833.76.363	–	833.76.367	9.0 (354 5/16")				
1060	110	50 (2")	>90	>50	833.76.364	–	833.76.368	9.0 (354 5/16")				
1080	113	50 (2")	>90	>50	833.76.365	–	833.76.369	9.0 (354 5/16")				
1430	99	50 (2")	>90	>50	833.76.370	–	833.76.374	6.2 (244 1/8")	1.30	2.70	–	6.20
1520	106	50 (2")	>90	>50	833.76.371	–	833.76.375	6.2 (244 1/8")				
1605	111	50 (2")	>90	>50	833.76.372	–	833.76.376	6.2 (244 1/8")				
1650	115	50 (2")	>90	>50	833.76.373	–	833.76.377	6.2 (244 1/8")				
1850	96	50 (2")	>90	>50	833.76.378	–	833.76.382	4.6 (181 1/8")	1.00	2.00	–	4.60
2015	105	50 (2")	>90	>50	833.76.379	–	833.76.383	4.6 (181 1/8")				
2050	107	50 (2")	>90	>50	833.76.380	–	833.76.384	4.6 (181 1/8")				
2100	109	50 (2")	>90	>50	833.76.381	–	833.76.385	4.6 (181 1/8")				
415	86	50 (2")	>90	>50	833.74.344	833.74.348	–	6.0 (236 1/4")	4.10	8.30	12.50	–
440	92	50 (2")	>90	>50	833.74.345	833.74.349	–	6.0 (236 1/4")				
455	95	50 (2")	>90	>50	833.74.346	833.74.350	–	6.0 (236 1/4")				
460	96	50 (2")	>90	>50	833.74.347	833.74.351	–	6.0 (236 1/4")				
415	86	50 (2")	>90	>50	833.76.324	833.76.328	–	12.0 (472 7/16")	4.10	8.30	–	18.70
440	92	50 (2")	>90	>50	833.76.325	833.76.329	–	12.0 (472 7/16")				
455	95	50 (2")	>90	>50	833.76.326	833.76.330	–	12.0 (472 7/16")				
460	96	50 (2")	>90	>50	833.76.327	833.76.331	–	12.0 (472 7/16")				
820	85	50 (2")	>90	>50	833.76.342	833.76.346	–	8.0 (314 15/16")	2.00	4.10	–	9.30
870	91	50 (2")	>90	>50	833.76.343	833.76.347	–	8.0 (314 15/16")				
900	94	50 (2")	>90	>50	833.76.344	833.76.348	–	8.0 (314 15/16")				
930	97	50 (2")	>90	>50	833.76.345	833.76.349	–	8.0 (314 15/16")				



For quick selection of linear light, see page 2

LED strip lights

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

	Voltage	Model	Quantity	Color temperature	Illuminance				Wattage	
	V	Häfele Loox5	LEDs/m	K	250 mm (9 13/16")	500 mm (19 11/16")	750 mm (29 1/2")	1000 mm (39 3/8")	W/m	
LED strip lights multi-white, 8 mm										
	5 12V	LED 2064	2 x 60	2700	1025	425	230	145	4.8	
				5000	1075	445	245	150		
		LED 2070	2 x 120	2700	1865	785	430	270	9.6	
				5000	2045	865	475	295		
	5 24V	LED 3044	2 x 120	2700	1025	425	230	145	4.8	
				5000	1075	445	245	150		
		LED 3060 Silicone	2 x 120	2700	1025	425	230	145	4.8	
				5000	1075	445	245	150		
		LED 3047	2 x 120	2700	1865	785	430	270	9.6	
				5000	2045	865	475	295		
		LED 3061 Silicone	2 x 120	2700	1865	785	430	270	9.6	
				5000	2045	865	475	295		
		LED 3049	2 x 120	2700	2780	1180	650	405	14.4	
				5000	2800	1200	660	415		
LED strip lights RGB, 10 mm										
	5 12V	LED 2080	120	RGB	–	–	–	–	9.6	
	5 24V	LED 3080	120	RGB	–	–	–	–	9.6	

*See page 158 for conversion chart.



	Luminous flux	Luminous efficacy	Section length	Color rendering index CRI		Available length			Max. strip length (visual)	Max. strip length wattage-dependent on the Loox5 driver				
	lm/m	lm/W		mm	R _a	R ₉	5 m (196 7/8")	15 m (590 9/16")		50 m (1968 1/2")	m	20 W	40 W	60 W
	*	*												
	425	89	50 (2")	>90	>50	833.74.352	-	833.74.353	4.5 (177 3/16")	4.10	8.30	12.50	-	
	465	97												
	825	86	25 (1")	>90	>50	833.74.370	-	833.74.371	3.5 (137 13/16")	2.00	4.10	6.20	-	
	930	97												
	425	89	50 (2")	>90	>50	833.76.332	-	833.76.333	8.5 (334 5/8")	4.10	8.30	-	18.70	
	465	97												
	425	89	50 (2")	>90	>50	833.76.387	833.76.388	-	8.5 (334 5/8")	4.10	8.30	-	18.70	
	465	97												
	825	86	50 (2")	>90	>50	833.76.350	-	833.76.351	6.5 (255 7/8")	2.00	4.10	-	9.30	
	930	97												
	825	86	50 (2")	>90	>50	833.76.389	833.76.390	-	6.5 (255 7/8")	2.00	4.10	-	9.30	
	930	97												
	1230	85	50 (2")	>90	>50	833.76.360	-	833.76.361	5.0 (196 7/8")	1.30	2.70	-	6.20	
	1370	95												
	530	51	25 (1")	-	-	833.74.380	-	-	3.0 (118 1/8")	2.00	4.10	6.20	-	
	530	51	50 (2")	-	-	833.76.386	-	-	6.5 (225 7/8")	2.00	4.10	-	9.30	



For quick selection of linear light, see page 2

Light shapes rooms.

Light in furniture is more than just accessories.

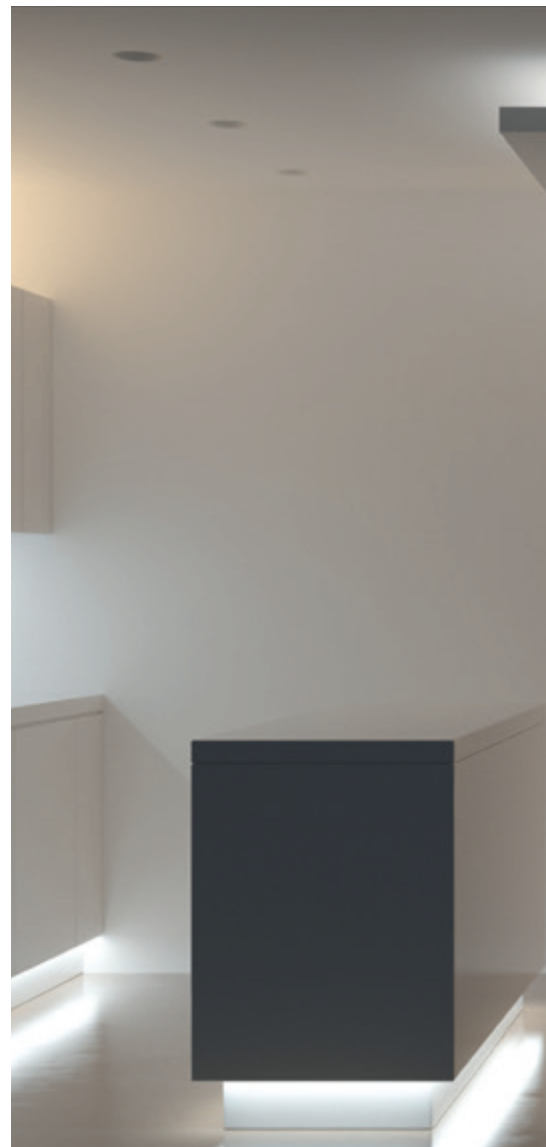




- Light in furniture is no longer an accessory
- which can be retrofitted later. Today, light has
- essential and imperative comfort functions in
- furniture.
- Contemporary furniture planning incorporates
- light as a focus right from the beginning in
- order to achieve the best possible result for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

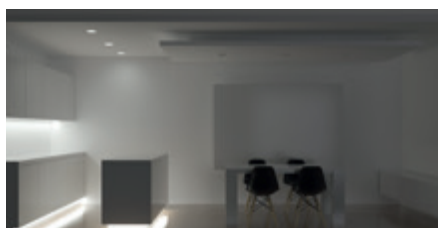
Light changes spaces.

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 color 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 atmosphere of 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 ambience, 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 a 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 requires a well lit work surface.



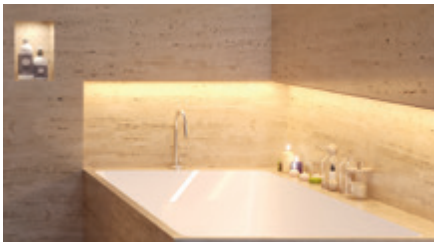
Ambient light.

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's 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 color.



Light makes color visible.

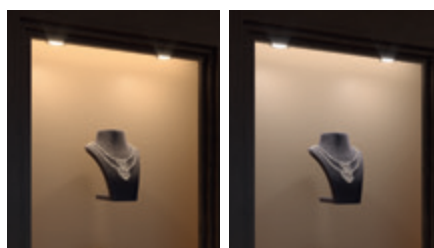
Light is made up of electromagnetic waves which only become visible to the human eye through reflection on objects. A red object reflects only the red color. The other colors are absorbed. All light sources are tested and measured based on the accuracy of their color reproduction, the so-called color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



Warm light. Cool light.

The color of the light, also referred to as color 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-colored light has a relaxing effect and evokes a state of rest. Just like the warm glow in the late afternoon or a candle.



Consistent color 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 aftermarket 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's possible to achieve flat surface illumination of specific areas. A special effect is created by overlapping cones of light.

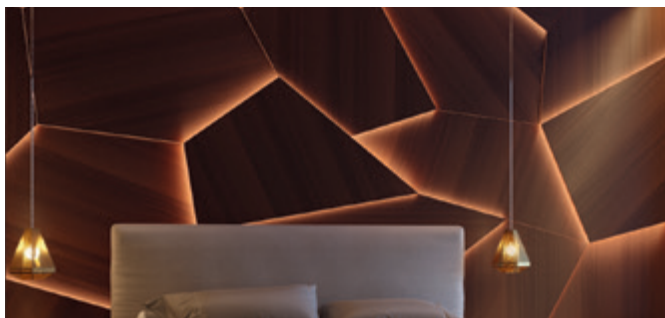
Linear illumination can be used to create horizons. With direct light objects can be partially emphasized. Wall wash light can highlight and reinforce structures (stone structures, relief wallpapers).

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's 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's 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 scenes inside the space.

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 scenes 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 colored RGB lights.



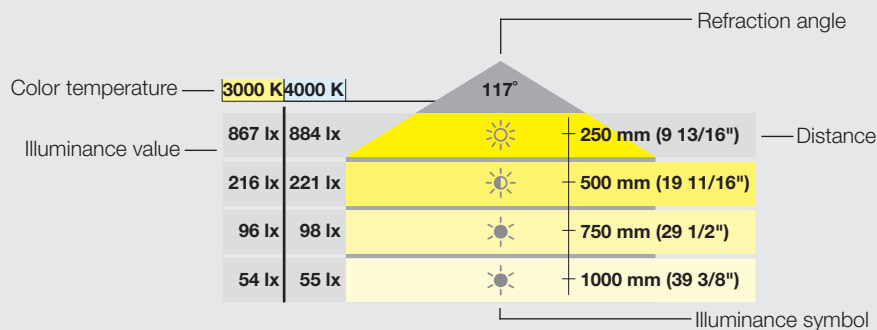
Control light (and more) centrally.

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 scenes can be saved and programmed, or simply retrieved with just a fingertip.



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 color temperatures and is meant to be for quick reference only. Please note the specific values of the individual color temperatures and the refractive angle before ordering.

Recommendation for illumination of interior rooms





Interior room type	Illuminance in Lux at 500 mm	Color temperature
Kitchen, dining area	300–500	2700–4000 K
Store fixtures, galleries	300–500	4000–6500 K
Bedroom, living room	200–300	2700–4000 K
Bathroom	200–500	3500–4000 K
Storage room	100	4000–5000 K
Orientation light, hallway, wardrobe	10–50	4000–5000 K

Conversion chart

Wattage		Luminous Flux			
W/m	W/ft.	lm/m	lm/ft.	lm/m	lm/ft.
4.8	1.5	415	127	970	296
9.6	3.0	425	130	990	302
14.4	4.5	440	134	1000	305
19.2	6.0	455	139	1030	314
		460	140	1040	317
		465	142	1060	323
		480	146	1080	329
		490	149	1230	375
		495	151	1270	387
		530	162	1305	398
		810	247	1340	409
		820	250	1370	418
		825	252	1430	436
		860	262	1520	464
		870	265	1605	490
		900	275	1650	503
		905	276	1850	564
		920	281	2015	615
		930	284	2050	625
		945	288	2100	641
		955	291		

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 property of their respective owners.



Test symbol

-  TÜV seal of quality
-  Confirmation from 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.
-  Underwriters Laboratories, correspondence with the national standards in the USA and Canada
-  Energy efficiency standard level VI (USA) meets DOE new standards
-  Product Safety Electrical Appliance and Material Safety Law (for Japan)
-  Regulatory Compliance Mark (for Australia)
-  China Compulsory Certification
-  Eurasian Conformity, for CU countries (Russia, Kazakhstan, Belarus)
-  Korea Certification Mark
-  Bureau of Standards, Metrology & Inspection BSMI (for Taiwan)
-  Thai Industrial Standards Institute TISI
-  European Norms Electrical Certification, with indication of the testing laboratory (one of 18 European national institutes)
-  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

- IP20** Only for use in dry locations
- IP44** Penetration by solid foreign bodies $q \geq 1$ mm is prevented. Water spray protection (water from all directions)
- IP65** Dustproof, protection from water spray (jet) from any angle.
-  IP44 after installation
-  IP65 after installation

Safety symbols

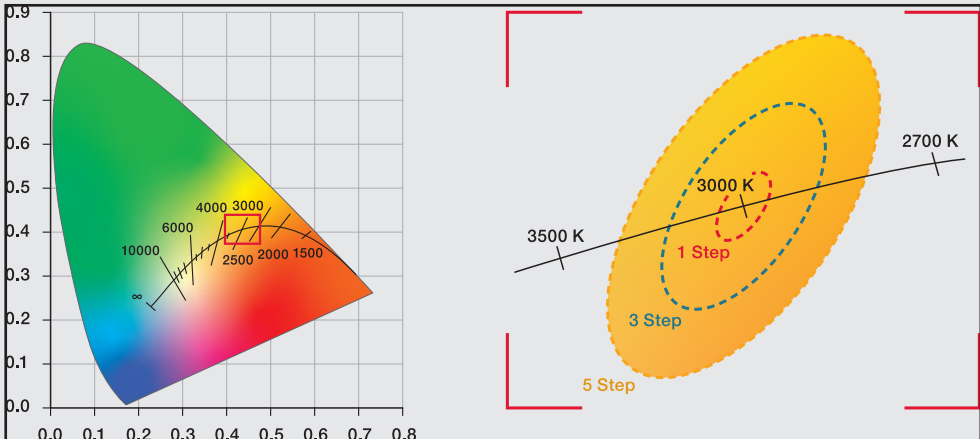
-  Installation permitted on or in furniture, whose ignition properties are unknown.
-  Max. surface temperature in case of fault
-  Lights to be used indoors only. Not to be used outdoors.
-  Do not use components that impede thermal radiation.
-  Waste of Electrical and Electronic Equipment. Do not 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

Technical terms

Technical terms

Refraction angle	The refraction angle (beam angle) describes the angle between two imagined straight lines in a plane through the visual beam axis, whereby these straight lines go through the center of the front of the lamp and through the points at which the illuminance is 50% of the illuminance on the visual beam axis.														
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.														
Binning	During industrial manufacture, LEDs differ from each other with regard to color, luminous flux (brightness) and forward voltage. In order to achieve consistent light quality with the same brightness level and a uniform light color, they are therefore sorted according to color, luminous flux and forward voltage and separated into bins ("containers") during manufacturing. This sorting process is known as Binning. Häfele exclusively uses bins with a high degree of brightness in order to achieve high efficiency.														
Bluetooth® Mesh	Network technology which was introduced in 2017, based on Bluetooth® Low Energy, in which all components (controls, devices) form a joint network, which is ideal for controlling lights. Häfele Connect Mesh uses this technology.														
Energy efficiency class	The energy efficiency class provides information about the relevant energy consumption. Lamps and lights are categorized in classes E to A++. LED lights achieve the highest classes A to A++.														
Color temperature and light color	The color temperature is a specification of the color appearance of a white light source and is measured in Kelvin (K). The lower the color temperature, the warmer the light color; the higher the color temperature, the cooler the light color. White light sources with a color temperature below 3400 K are considered "warm white" by Häfele, white light sources with a color temperature between 3400 K and 5700 K are considered "cool white". White light sources above 5700 K are referred to as "daylight white".														
Color consistency/ color differences	 <p>Color differences are specified in stages, so called "MacAdams Ellipses" or "SDCM" (Standard Deviation of Color Matching). Häfele uses 3 SDCM binnings for its LED products. This is a good value, because it is statistically unlikely that LEDs with a maximum color difference will be next to each other on the strip light or in the light and that the color difference is visible. In its ErP directive, the EU Commission stipulates that 6 SDCMs may not be exceeded for LED products.</p> <table border="1"> <thead> <tr> <th>SDCM</th><th>Visibility</th></tr> </thead> <tbody> <tr> <td>1</td><td>Only people with extremely good vision can see the most minimal color differences.</td></tr> <tr> <td>2</td><td>Most minimal color differences are visible.</td></tr> <tr> <td>3</td><td>Very small color differences are visible.</td></tr> <tr> <td>4</td><td>Color differences are visible.</td></tr> <tr> <td>5</td><td>Significant color differences are visible.</td></tr> <tr> <td>>5</td><td>Very clear color differences are visible.</td></tr> </tbody> </table>	SDCM	Visibility	1	Only people with extremely good vision can see the most minimal color differences.	2	Most minimal color differences are visible.	3	Very small color differences are visible.	4	Color differences are visible.	5	Significant color differences are visible.	>5	Very clear color differences are visible.
SDCM	Visibility														
1	Only people with extremely good vision can see the most minimal color differences.														
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4	Color differences are visible.														
5	Significant color differences are visible.														
>5	Very clear color differences are visible.														
Color rendering index CRI	The color rendering index is a parameter that can be used to compare the color rendering quality of light sources at the same color temperature. The higher the value, the better the color rendering. A value of 100 corresponds to the color rendering of sunlight.														
Weighted energy consumption	The weighted energy consumption is rounded to two decimal places in kilowatt hours in relation to 1,000 hours of use. It applies to operation of the LED with an external driver. The calculation and publication of this value is defined by EU ordinance No. 874/2012.														

Technical terms

Constant current technology	The same current flows through each LED. That means that the brightness of all LEDs is the same, and a drop in luminous flux is prevented. This increases the maximum visual length of the strip lights.																												
Life time	<p>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.</p> <table><tr><th>Indoor use</th><th>Annual operating time (EN 15193) hours</th><th>Replacement rate Years</th><th>Life time installation Hours</th></tr><tr><td>Office</td><td>2,500</td><td>20</td><td>50,000</td></tr><tr><td>Education</td><td>2,000</td><td>25</td><td>50,000</td></tr><tr><td>Hospital</td><td>5,000</td><td>10</td><td>50,000</td></tr><tr><td>Hotel</td><td>5,000</td><td>10</td><td>50,000</td></tr><tr><td>Restaurant</td><td>2,500</td><td>10</td><td>25,000</td></tr><tr><td>Shop</td><td>5,000</td><td>10</td><td>50,000</td></tr></table>	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
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 L80/B10	L80 is the time after which the LED is still emitting 80% of its original light. B10 means that 10% of the LEDs may have less than 80% of the original light output. Häfele tests all LEDs it uses in accordance with the LM-80 standard. LM-80 is a standardized testing method, which allows products to bear the EPA's (Environmental Protection Agency) Energy Star. The test is a manufacturer-independent comparison of LEDs. During the test the luminous flux (Lumen maintenance) of an LED is tested at three different temperatures for a minimum of 6,000 hours. Then the life time L80 is calculated by means of extrapolation. The extrapolation procedure is described in regulation IES TM-21.																												
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 base, and both are encapsulated in protective plastic. LEDs are mostly based on inorganic, i.e. non-carbon based materials.																												
Luminous efficacy	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 Lumens 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%.																												
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. That's why Häfele 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) always have the same brightness.																												
Max. strip light length	Visual value Strip light length with an imperceptible drop in luminous flux of max. 30%. Wattage-dependent value Strip light length = output power of driver / wattage of the strip light per meter. If the wattage-dependent value is greater than the visual value, a difference in brightness will be perceivable. Exception: The LEDs of the strip lights with constant current technology (LED 2077/3050/3051/3052) always have the same brightness.																												
Multi-white	The light color of shades of white can be changed as required with Häfele Connect Mesh, e.g. from warm white to cool white.																												
RGB	RGB is the abbreviation for red, green and blue. In combination with Häfele Connect Mesh, almost any color combination can be created from these three primary colors.																												
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 catalogs, since only CE compliant products are allowed to be offered. The declaration of conformity is available online at www.haefele.com																												
Transmittance	Ratio of transmitted light to incidental light. An ideal transparent body would have a transmittance of 100%.																												

Technical questions

Technical questions

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, anti-static cloth. Scouring agents and aggressive cleaners can destroy the surface and attack the LEDs.

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 an electronics technician installs the system, Loox can 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.

What is the life time of the products in permanent operation?

Loox5 drivers >70,000 hrs. with max. 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. Loox5 LED strip lights >50,000 hrs. at an ambient temperature of max. 45 °C. Cooling with an aluminum profile is recommended from 9.6 W/m (3.0 W/ft.).

Can the multi switch box, the multi driver box and the 3-way distributor with switching function be connected in series multiple times?

No, because the signals can no longer be transmitted properly.

Can 12 V and 24 V lights be used together?

Yes, please use our respective converter. (See converters in Supplying)

How can sensor switch malfunctions be avoided?

Check for correct switch installation. The TOP lettering on the switch must point upwards in the installation situation.

How is consistent bulb light color 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 color for follow-up purchases.

What is the maximum wattage that I can connect to a device output of the driver?

With 12 V systems it is 12 V x 5.0 A = 60 W with a 60 W driver
With 24 V systems it is 12 V x 3.75 A = 90 W with a 90 W driver

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 (32' 9 11/16"). 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).

What is AWG?

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 stranded or solid core wire.

What is the current carrying capacity of my 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	110 W



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

Can an LED flexible strip light be used behind acrylic glass?

Yes, however the acrylic glass increases the color variations (binning) up to four times and minimal color deviations are therefore more visible.

Can Loox lights be operated using multiple switches?

Yes, please use the multi-switch box to do this. Up to three switches can be connected to the multi switch box (multi-switch box see page 92).

Why do the lights have to be plugged in first before connecting the high voltage mains plug?

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

Can Loox lights be used in RVs/boats/cars?

Yes. We have special IC strip lights that compensate for voltage fluctuations of the vehicles without problems. Our regular LED strip lights can be used as well. It is important to note, however, that the voltage peaks may reduce the life time.

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833.76.385	13	833.89.126	86	833.89.228	49	833.95.002	124	833.95.788	43, 47
833.76.385	143	833.89.127	85	833.89.229	49	833.95.003	124	833.95.788	81
833.76.386	19	833.89.128	85	833.89.230	49	833.95.008	125	833.95.788	109
833.76.386	144	833.89.129	85	833.89.231	49	833.95.010	125	833.95.789	43, 47
833.76.387	17	833.89.133	86	833.89.232	49	833.95.011	125	833.95.789	81
833.76.387	144	833.89.134	87	833.89.233	49	833.95.022	126	833.95.789	109
833.76.388	17	833.89.135	87	833.89.234	49	833.95.700	11, 13, 21	833.95.790	45
833.76.388	144	833.89.136	87	833.89.235	49	833.95.700	112	833.95.790	109
833.76.389	17	833.89.137	87	833.89.236	49	833.95.701	11, 13, 21	833.95.791	43
833.76.389	144	833.89.140	89, 91	833.89.237	49	833.95.701	112	833.95.791	109
833.76.390	17	833.89.140	110	833.89.238	49	833.95.702	17	833.95.792	106
833.76.390	144	833.89.141	89, 91	833.89.239	49	833.95.702	114	833.95.793	106
833.77.000	65	833.89.141	110	833.89.240	49	833.95.703	15	833.95.794	106
833.77.001	65	833.89.142	89, 91	833.89.241	49	833.95.703	113	833.95.795	106
833.77.004	65	833.89.142	110	833.89.242	49	833.95.704	19	833.95.796	106
833.77.120	68	833.89.143	89	833.89.243	49	833.95.704	115	833.95.800	39
833.77.121	68	833.89.144	91	833.89.244	49	833.95.705	9	833.95.801	39
833.77.130	67	833.89.148	85	833.89.245	49	833.95.705	111	833.95.802	39
833.77.131	67	833.89.176	87	833.89.246	49	833.95.706	11, 13	833.95.803	39
833.77.180	70	833.89.177	87	833.89.247	49	833.95.706	112	833.95.804	40
833.77.181	70	833.89.182	87	833.89.248	49	833.95.707	11, 13	833.95.805	40
833.77.190	69	833.89.183	87	833.89.249	49	833.95.707	112	833.95.806	40
833.77.191	69	833.89.184	15	833.89.251	32	833.95.708	17	833.95.807	40
833.77.230	71	833.89.187	11, 13, 21	833.89.252	32	833.95.708	114	833.95.808	40
833.77.700	35	833.89.187	112	833.89.253	32	833.95.709	15	833.95.809	40
833.77.723	105	833.89.188	17	833.89.254	32	833.95.709	113	833.95.810	40
833.77.724	105	833.89.188	114	833.89.256	126	833.95.710	19	850.00.005	100
833.77.730	66	833.89.189	19	833.89.257	126	833.95.710	115	850.00.006	100
833.77.731	66	833.89.189	115	833.89.258	126	833.95.711	9	850.00.011	96
833.77.785	139	833.89.190	9	833.89.259	126	833.95.711	111	850.00.012	96
833.77.830	96	833.89.190	111	833.89.260	126	833.95.712	106	850.00.025	101
833.77.831	96	833.89.191	11, 13, 21	833.89.261	126	833.95.713	106	850.00.026	101
833.77.832	104	833.89.191	112	833.89.262	126	833.95.714	106	850.00.040	97
833.77.833	104	833.89.192	11, 13, 21	833.89.263	126	833.95.715	106	850.00.041	97
833.77.834	104	833.89.192	112	833.89.264	126	833.95.716	107	850.00.042	95
833.77.835	88	833.89.193	11, 13, 21	833.89.265	126	833.95.717	106	850.00.043	95
833.77.836	88	833.89.193	112	833.89.266	27	833.95.718	106	850.00.046	98
833.77.837	117	833.89.194	9	833.93.713	19	833.95.719	106	850.00.047	99
833.77.838	116	833.89.194	111	833.93.723	108	833.95.720	106	983.19.510	77
833.77.839	104	833.89.195	9	833.93.724	108	833.95.721	107	983.19.520	77
833.77.934	127	833.89.195	111	833.93.725	108	833.95.742	107	983.19.530	77
833.87.020	79	833.89.196	9	833.93.731	108	833.95.743	107		
833.87.021	78	833.89.196	111	833.93.732	108	833.95.745	96		
833.89.000	124, 125	833.89.197	17	833.93.736	11, 13, 21	833.95.746	96		
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833.89.002	124, 125	833.89.198	17	833.93.737	105	833.95.748	104		
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833.89.006	124, 125	833.89.199	114	833.93.740	9	833.95.751	88		
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