MODULAR CONTROL SYSTEM

TECHNICAL GUIDE

Components and Configurations



powered by ELEKTRA

THE SMARTEST WAY TO LIGHT

ELEKTRA‘S MODULAR CONTROL SYSTEM

A fresh take on lighting control.

The MCS system is the modular control solution for modern LED lights. Certified for the relevant target markets—for reliable and versatile use.

Thanks to its modular design, the system can be flexibly adapted to individual requirements: Function modules simply plug directly into the driver and can be expanded at any time.

Control your LED lighting conveniently and intelligently with the MCS system—via remote control, sensor, or smart home app. Custom lighting scenes can be easily created, saved, and conveniently reactivated* using a remote control or smart home app.

A complete system—simple, flexible, convenient, and future-proof.

* See also “Note on Lighting Scenes:” on page: 15



Thought out down to the last detail

High compatibility

All functional modules are available in different versions, allowing all 24 V ELEKTRA lights with the ESP system to be connected.

High-quality design

Dark gray surfaces and light gray lettering give the product a modern, high-quality look. The timeless design is understated and harmonious. It adapts to various interior styles and spatial conditions.

Low Profile

With a height of just 15.8 mm, the product is exceptionally slim and can be positioned behind furniture in a space-saving and unobtrusive manner.

Excellent Integration

The dark housing allows for particularly unobtrusive integration into furniture and ensures a harmonious, understated appearance.

High Tensile Strength

The high tensile strength ensures a secure hold: The components can only be separated from one another when subjected to a tensile force of at least 30 newtons (equivalent to 3 kg).

Easy installation

Simple assembly and intuitive setup enable quick and easy installation —without any complicated or time-consuming learning processes.

Convenient operation

The lighting control system can be flexibly operated via remote control, sensor, or app. A consistent and intuitive operating logic ensures convenient and simple use.



System Overview

Drivers



Description	Model	Item No.
MCS D2430	LED Driver 24 V / 30 W	053057070



Description	Model	Item No.
MCS D2460	LED Driver 24 V / 60 W	053057170



Description	Model	Item No.
MCS D2490	LED Driver 24 V / 90 W	053057270



Description	Model	Item No.
MCS D24120	LED Driver 24 V / 120 W	053057370

Modules



6-Port Distributor Module
12 / 24 V

Description	Model	Item No.
MCS DB6+	ESP black, keying tab +	053057801
MCS DW6-	ESP white, keying tab -	053057802
MCS DW6+	ESP white, keying tab +	053057803



12-Port Distributor Module
12 / 24 V

Description	Model	Item No.
MCS DB12+	ESP black, keying tab +	053057851
MCS DW12-	ESP white, keying tab -	053057852
MCS DW12+	ESP white, keying tab +	053057853



4-Channel Radio Sensor Module
12 / 24 V

Description	Model	Item No.
MCS RSB4+	ESP black, keying tab +	053057901
MCS RSW4-	ESP white, keying tab -	053057902
MCS RSW4+	ESP white, keying tab +	053057903

Modules



1-Channel Smart Module
12 / 24 V

Description	Model	Item No.
MCS MWB+1	ESP black, keying tab +	053058001
MCS MWW-1	ESP white, keying tab -	053057002
MCS MWW+1	ESP white, keying tab +	053057003



6-Channel Smart Module
12 / 24 V

Description	Model	Item No.
MCS MWB+6	ESP black, keying tab +	053058051
MCS MWW-6	ESP white, keying tab -	053057052
MCS MWW+6	ESP white, keying tab +	053057053

Remote Control



Description	Model	Item No.
MCS RCM-6	Dark gray, Soft Touch	053058451

Sensors



Description	Model	Item No.
MCS SIR-L	IR Sensor, wired	053058201



Description	Model	Item No.
MCS SPIR-L	Motion Detector, wired	053058211



Description	Model	Item No.
MCS TS-L	Touch Sensor, wired	053058231



Description	Model	Item No.
MCS SDC-L	Door Contact Sensor, wired	053058241



Description	Model	Item No.
MCS SIR-WL	IR Sensor, wireless	053058301



Description	Model	Item No.
MCS SPIR-WL	Motion Detector, wireless	053058302



Description	Model	Item No.
MCS TS-WL	Touch Sensor, wireless	053058303



Description	Model	Item No.
MCS SDC-WL	Door Contact Sensor, wireless	053058304

Drivers

The drivers form the foundation and power supply of the MCS system. They are designed for input voltages of 100–240 V and are certified for all relevant markets. Together with various connection cables, the MCS system is suitable for use in virtually any market.

The output voltage is 24 V in each case (12 V available upon request). Functional modules are connected via the MCS AMASS plug-in system (see “Modules” on page 10).

Power Levels

The MCS Drivers are available in four versions:

- 30 watts
- 60 watts
- 90 watts
- 120 watts

This ensures that the MCS Drivers provide the appropriate power reserve for a wide variety of lighting requirements. As a result, a wide range of configurations can be implemented—from single lights and small groups of lights to complete solutions featuring high-performance lighting in multiple areas.



MCS Drivers

LED power supply for connecting MCS function modules.
Protection Class II
Constant voltage
Certifications: CE, UKCA, FCC, UL, CCC, 3A, KC (in progress), BIS (in progress)

Technical Specifications for the MCS Drivers

30 W – MCS D2430

Primary: C8 connector

AC 100–240 V~, 50/60 Hz, max. 0.37 A, λ_0.9, Pn: 36 W

Secondary: AMASS connector socket

DC 24 V, max. 1.25 A, max. 30 W, CV type

Ta: 40°C, Tc: 85°C (UL: Ta: 25°C, Tc: 75°C)

60 W – MCS D2460

Primary: C8 connector

AC 100–240 V~, 50/60 Hz, max. 0.71 A, λ_0.9, Pn: 69 W

Secondary: AMASS connector socket

DC 24 V, max. 2.5 A, max. 60 W, CV type

Ta: 40°C, Tc: 85°C (UL: Ta: 25°C, Tc: 75°C)

90 W – MCS D2490

Primary: C8 connector socket

AC 100–240 V~, 50/60 Hz, max. 1.05 A, λ_0.9, Pn: 103 W

Secondary: AMASS connector socket

DC 24 V, max. 3.75 A, max. 90 W, CV type

Ta: 40°C, Tc: 90°C (UL: Ta: 25°C, Tc: 75°C)

120 W – MCS D24120

Primary: C8 connector

AC 100–240 V~, 50/60 Hz, max. 1.35 A λ_0.9, Pn: 136 W

Secondary: AMASS connector socket

DC 24 V, max. 5 A, max. 120 W, CV type

Ta: 40°C, Tc: 85°C (UL: Ta: 25°C, Tc: 75°C)

Distributor Module

Get started right away. With the Distributor Module, LED lights can be operated directly without any additional control components. The lighting is controlled by turning the power on and off. Depending on the model, 6 or 12 LED outputs are integrated. Dimming or Tunable White are not possible with this module.



Radio Sensor Modul

The All-Around Performer. The module features 4 sensor slots, each of which is directly assigned to an LED output.
Up to 5 wireless sensors can be programmed to each LED output, either as an alternative or in addition to the wired sensors. Furthermore, all 4 LED outputs can be controlled with a remote control, and the light color can be preset to one of 8 levels using the integrated button on the module.




Wired Sensor


Wireless Sensor


Remote Control

Smart Modul

Connection to the smart home ecosystem. Using the Matter™* protocol, programming the controls is a breeze; depending on the model, it offers 1 or 6 channels that can be controlled via app or voice command, including dimming levels and color temperature. Optionally, the remote control can be programmed, providing even more flexibility. In addition, the light color can be preset to one of 8 levels using the integrated button on the module.



matter


Smart Home App


Remote Control

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MCS Distributor Modules

Function modules for connecting LED lights without additional control functions. Simple connection of LED lights without control of light color or brightness; controlled via the power supply, e.g., a switched outlet.

Two Versions: 6 LED outputs (6-port distributor)
12 LED outputs (12-port distributor)

Technical Specifications for the MCS Distributor Modules

Protection class: III

Certifications: CE, UKCA, UL, 3A, KC (in progress), BIS (in progress)

With 6 or 12 LED slots

Control via the power supply, e.g., a switched outlet

In/Out: DC 12 & 24 V (12 V Drivers on request)

In: AMASS plug

Out: AMASS socket

MCS DB6+

6 LED outputs, black ESP socket, keying tab +

Ta: 45°C, Tc: 80°C

Max. 3 A per LED output (12 V: 36 W / 24 V: 72 W)

Max. 5 A total (UL: max. 4 A total)

MCS DB12+

12 LED outputs, black ESP connector, keying tab +

Ta: 45°C, Tc: 80°C

Max. 3 A per LED output (12 V: 36 W / 24 V: 72 W)

Max. 5 A total (UL: max. 4 A total)

MCS DW6-

6 LED outputs, white ESP socket, keying tab -

Ta: 45°C, Tc: 80°C

Max. 3 A per LED output (12 V: 36 W / 24 V: 72 W)

Max. 5 A total (UL: max. 4 A total)

MCS DW12-

12 LED outputs, white ESP connector, keying tab -

Ta: 45°C, Tc: 80°C

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Max. 5 A total (UL: max. 4 A total)

MCS DW12+

12 LED outputs, white ESP connector, keying tab +

Ta: 45°C, Tc: 80°C

Max. 3 A per LED output (12 V: 36 W / 24 V: 72 W)

Max. 5 A total (UL: max. 4 A total)

MCS Radio Sensor Modules

Works without the Internet, an app, or a smart home system! Supports wired sensors, wireless sensors, and remote controls

Function modules for controlling LED lights via the MCS remote control and/or MCS sensors. Light color and brightness can be adjusted using the remote control. When operated via a sensor, the On/Off or On/Off/Brightness functions can be adjusted, depending on the sensor.

Logical sensor control for wired sensors: Sensor slot 1 = LED output slot 1, etc.

Wireless sensors can be paired with any LED output; multiple LED outputs per sensor are also possible.

Easy pairing of the remote control (maximum of 5 remote controls per module).

A maximum of 5 modules can be controlled via a single remote control (synchronization required to ensure all modules are synchronized).

Light color can also be adjusted directly on the module in 8 steps

Settings are saved in the event of a power loss.

Cascading is possible (max. 3 A per ESP slot).

Technical Specifications for the MCS Radio Sensor Modules

Radio frequency: 2.4 GHz

Protection class: III

Certifications: CE, UKCA, UL, 3A, FCC, KC (in progress), BIS (in progress)

4 slots for wired sensors

4 LED slots (= 4 control channels)

Connects up to 5 wireless sensors

Connects up to 5 remote controls

Simultaneous operation via remote control, wired sensors, and wireless sensors is possible

In/Out: DC 12 & 24 V (also compatible with upcoming 12 V MCS Driver)

In: AMASS plug

Out: AMASS socket

MCS RSB4+

4 sensor inputs

4 LED outputs, black ESP connector, keying tab +

Ta: 45°C, Tc: 80°C

Max. 3 A per LED output (12 V: 36 W / 24 V: 72 W)

Max. 5 A total (UL: max. 4 A total)

MCS RSW4+

4 sensor inputs

4 LED outputs, white ESP connector, keying tab +

Ta: 45°C, Tc: 80°C

Max. 3 A per LED output (12 V: 36 W / 24 V: 72 W)

Max. 5 A total (UL: max. 4 A total)

MCS RSW4-

4 sensor inputs

4 LED outputs, white ESP connector, keying tab -

Ta: 45°C, Tc: 80°C

Max. 3 A per LED output (12 V: 36 W / 24 V: 72 W)

Max. 5 A total (UL: max. 4 A total)

Modules

MCS Smart Modules

Works with third-party internet/app/smart home systems; additionally, up to 5 remote controls can be connected.

Function modules for controlling LED lights via smart home systems using the Matter™ standard* through third-party apps/smart speakers or via the MCS wireless remote control. Control of light color and brightness.

Simple pairing process via a Matter™-enabled smart home app using a QR code

Two versions: 1-channel module: Controls all 6 LED outputs in parallel as a single channel
6-channel module: Separate control of each individual LED output

Up to 5 modules can be controlled via a single remote control (synchronization required to ensure all modules are synchronized).

Light color can also be adjusted directly on the module in 8 steps.

Settings are saved in the event of a power loss.

Cascading is possible (max. 3 A per ESP slot).

The Smart Module is integrated into third-party smart home systems that support the Matter™ standard. Therefore, ELEKTRA does not provide its own app. The Smart Module is recognized as a lamp or light fixture in the third-party app and can be used with other smart home components.

The following platforms and control hubs support the MCS Smart Module*:

Amazon Alexa: Via many current Amazon Echo smart speakers and displays (4th generation and later)

Google Home: Via Google Nest Hub (2nd generation), Nest Hub Max, and compatible Android devices

Samsung SmartThings: Full Matter™ integration via SmartThings Hub

Home Assistant: Open-source platform

Apple Home: Via Apple HomePod (2nd generation), HomePod mini, or Apple TV 4K

Note: Apple does not reliably transmit commands, which may result in lighting color adjustments or other settings not being transmitted correctly or in connection drops.

Manufacturers with direct Matter™ support or bridges*:

Philips Hue: Philips Hue Bridge

IKEA: IKEA Dirigera Gateway

Aqara: e.g., Aqara Hub E1/M1S or Dimmer H2 EU

Eve Systems: Many devices such as Eve Energy, Eve Thermo, Eve Door & Windows

Shelly: Shelly Wall Displays, e.g., models from the Wall Display X1i, XL, S1 series, etc.

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Modules

Technical Specifications for the MCS Smart Modules

6 LED slots (6 control channels)
Connects up to 5 remote controls
Simultaneous control via remote control and third-party apps/smart speakers is possible (see page 13)
Smart Home Standard: Matter™*
Radio frequency: 2.4 GHz
Wi-Fi: 2.4 and 5 GHz
Protection class: III
Certifications: CE, UKCA, UL, 3A, FCC, KC (in preparation), BIS (in preparation)
In/Out: DC 12 & 24 V (also compatible with upcoming 12 V MCS Drivers)
In: AMASS plug
Out: AMASS socket

1-channel Modules

All LED outputs are controlled together.

MCS MWB+1
6 LED outputs, black ESP connector, keying tab +
Ta: 45°C, Tc: 75°C
Max. 3 A per LED output (12 V: 36 W / 24 V: 72 W)
Max. 5 A total (UL: max. 4 A total)

MCS MWW-1
6 LED outputs, white ESP connector, keying tab -
Ta: 45°C, Tc: 75°C
Max. 3 A per LED output (12 V: 36 W / 24 V: 72 W)
Max. 5 A total (UL: max. 4 A total)

MCS MWW+1
6 LED outputs, white ESP connector, keying tab +
Ta: 45°C, Tc: 75°C
Max. 3 A per LED output (12 V: 36 W / 24 V: 72 W)
Max. 5 A total (UL: max. 4 A total)

6-Kanal Module

All LED outputs are controlled individually.

MCS MWB+6
6 LED outputs, black ESP connector, keying tab +
Ta: 45°C, Tc: 75°C
Max. 3 A per LED output (12 V: 36 W / 24 V: 72 W)
Max. 5 A total (UL: max. 4 A total)

MCS MWW-6
6 LED outputs, white ESP connector, keying tab -
Ta: 45°C, Tc: 75°C
Max. 3 A per LED output (12 V: 36 W / 24 V: 72 W)
Max. 5 A total (UL: max. 4 A total)

MCS MWW+6
6 LED outputs, white ESP connector, keying tab +
Ta: 45°C, Tc: 75°C
Max. 3 A per LED output (12 V: 36 W / 24 V: 72 W)
Max. 5 A total (UL: max. 4 A total)

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Remote Control

The MCS Remote Control is operated with the MCS Radio Sensor Module or the MCS Smart Module. It features separate on and off buttons, a dimming button to adjust brightness, a button to set the color temperature, and 6 channel buttons to control up to 6 lighting groups.

With its soft-touch finish and dark gray color, the MCS Remote Control fits comfortably in the hand and conveys a high-quality impression.



Technical Specifications

6-channel remote control with a soft-lacquer finish
Battery-powered; battery type: 3 V, CR 2032
Radio frequency: 2.4 GHz

On button	for global control of all lighting groups
Off button	for global control of all lighting groups
Dimming button	Short press: 8 dimming levels (6400 K - 6000 K - 5500 K - 5000 K - 4500 K - 4000 K - 3000 K - 2700 K - 6400 K - 6000 K ... for LED strips with 2700–6400 K) Long press: continuous dimming (without direction reversal)
Color Temperature button	Short press: color temperature adjustment in 8 steps Long press: continuous ww-cw adjustment (without direction reversal)
Channel buttons 1–6	for controlling individual lighting groups.
Max. distance to the module:	5 m with a clear line of sight (no obstacles)
Maximum number of modules:	5

Note on lighting scenes:

When you turn off the lights using the Off button on the remote control, all lights connected to the module linked to the remote control will turn off. The dimming level and color temperature settings are automatically saved.

The preset lighting scene is restored by pressing the On button.

Caution! If a light in the lighting scene is turned off, pressing the On button will not turn it back on! To do so, the light must be turned on manually using the corresponding channel button.

Sensors

The MCS sensors are powered by the Radio Sensor Module and are available in four versions, each as either a wired or battery-powered wireless sensor.

Thanks to their small installation diameter, the wired sensors can be easily integrated into furniture and are virtually invisible. With the included mounting housing, they are also ideal as a retrofit solution.

For maximum flexibility—or when a wired sensor cannot be used—the product line includes wireless versions that can be easily screwed on or attached with double-sided adhesive tape.

IR Sensor



IR Sensor

A proximity sensor that operates without physical contact. It is activated by a hand gesture directly in front of the sensor.
Short press: On/Off; long press: Dim brightness.

PIR Sensor



PIR Sensor (Motion detector)

Motion detector with a detection range of approximately 3 meters and a 30-second delay after motion ceases.

Touch Sensor

Activated by touching the sensor surface.
Short press: On/Off; long press: Dim brightness.

Door Contact Sensor

A sensor built into the furniture that detects when doors are opened. When the door is closed, the sensor is off; when the door is opened, the light turns on.

Touch Sensor



Door Contact Sensor



Technical Specifications

Available as a wireless sensor or a wired version.

For use with the MCS Radio Sensor Module (max. 5 sensors per module).

Compact and unobtrusive design.

Wireless sensors include a mounting housing for screwing or gluing.

Wired sensors include a mounting housing for screwing on or installing inside furniture.

Certifications: CE, UKCA, UL (wireless sensors), 3A, FCC (wireless sensors), KC (wireless sensors/in progress)
BIS (wireless sensors/in process)

Wired Sensors	**Wireless Sensors**
Mounting dimensions: Ø12 x 22 mm Cable length: 2000 mm	Battery-powered, battery type: 3 V, CR 2450 Maximum distance from the module: 500 cm Radio frequency: 2.4 GHz
MCS SIR-L	MCS SIR-WL
Wired IR Sensor	Wireless IR Sensor
Brief movement within the detection range: On/Off	Short movement within the detection range: On/Off
Prolonged movement: Dimming (no direction reversal)	Long movement: Dimming (no direction reversal)
Detection range: max. 12 cm	Detection range: max. 6 cm
Dimming range: 10–100%	Dimming range: 10–100%
Soft On / Soft Off	Soft On / Soft Off
Power-Off Memory (dimming level)	Power-Off Memory (dimming level)
Ta: 45°C	Ta: 40°C
MCS-SPIR-L	MCS-SPIR-WL
Wired PIR Sensor (Motion Detector)	Wireless PIR Sensor (Motion Detector)
Activated by motion within the detection range	Activated by motion within the detection range
Detection range: max. 300 cm	Detection range: max. 250 cm
Detection angle: 80° horizontal, 50° vertical	Detection angle: 80° horizontal, 50° vertical
Delay time: 30 seconds (when no motion is detected)	Delay time: 30 seconds (when no motion is detected)
Ta: 45°C	Temperature: 40°C
MCS TS-L	MCS TS-WL
Wired Touch Sensor	Wireless Touch Sensor
Short press: On/Off	Short press: On/Off
Long press: Dimming (no direction reversal)	Long press: Dimming (no direction reversal)
Dimming range: 10–100%	Dimming range: 10–100%
Power-Off Memory (dimming level)	Power-Off Memory (dimming level)
Ta: 45°C	Temperature: 40°C
MCS-SDC-L*	MCS-SDC-WL*
Wired Door Contact Sensor	Wireless Door Contact Sensor
Sensor covered: Off, Sensor exposed: On	Sensor covered: Off, Sensor exposed: On
Detection range: 6–12 cm	Detection range: 6–10 cm (light-colored surface),
Temperature: 45°C	max. 3 cm (dark-colored surface)
	Ta: 40°C

* For dark surfaces, use a light-colored sticker if necessary to ensure proper operation.

Combine Smartly

The MCS's modular design allows for many different combinations. Depending on your needs, multiple modules can be connected in series to the driver and operated in parallel.

For example, the Radio Sensor Module and Door Contact Sensors can be used to control the lighting in kitchen cabinets, while the ambient lighting can be regulated simultaneously via the Smart Module and voice commands.

Alternatively, two Radio Sensor Modules can be connected in series to control up to 8 channels separately via sensors.

It is also possible to combine multiple Distributor Modules to achieve the desired number of LED outputs.

Every configuration is different. With the Modular Control System, many scenarios can be implemented without lengthy programming processes and without having to make a confusing number of settings.

The smartest way to light!

ONE SYSTEM. COUNTLESS POSSIBILITIES.

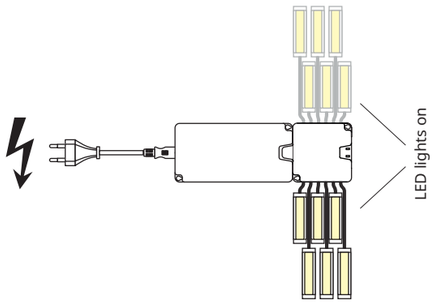
Please note: Some combinations are not practical and are therefore not recommended, for example: Distributor Module + Smart Module or Distributor Module + Radio Sensor Module. The lights connected to the Distributor Module are always on when power is supplied. When disconnected from the power grid, the entire system is off. In contrast, the Smart Module or Radio Sensor Module control the lights via sensors, remote control, or app. For this to work, the power supply must always be connected.

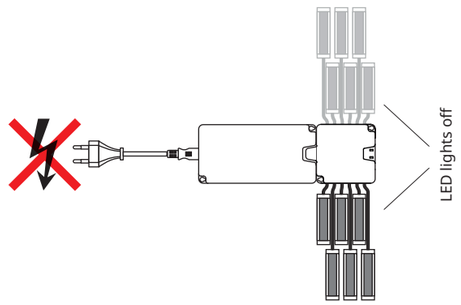
Standard Configurations

The standard configurations each include a driver with a connected module; depending on the type, these may be without a controller, with a remote control, with sensors or external Smart Home App. The standard configurations and various variants are illustrated below to demonstrate the flexibility of the MCS.

Standard configuration with Distributor Module

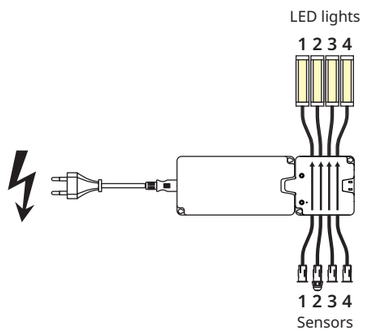
The LED lights are connected to the Distributor Module. They are powered via the power supply.





Standard configuration with Radio Sensor Module + wired sensors

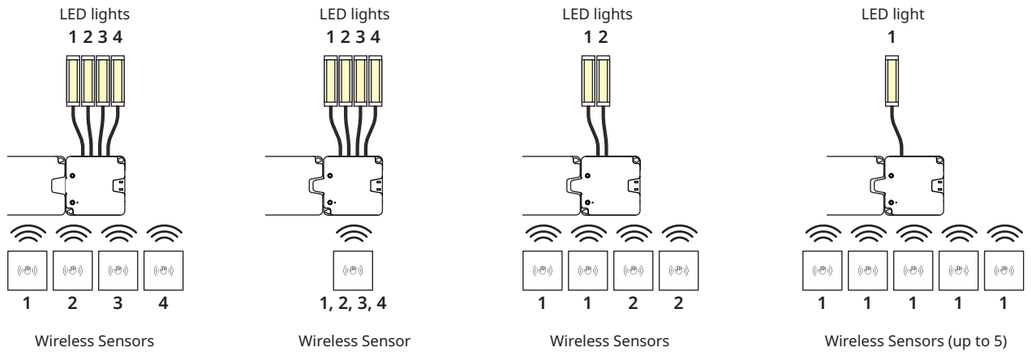
The sensor inputs are connected directly to the corresponding LED output. Each wired sensor controls only one LED output.



Standard Configurations

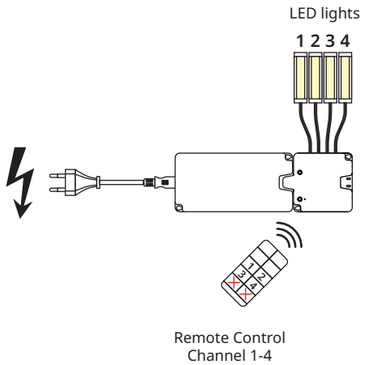
Radio Sensor Module + Wireless Sensors

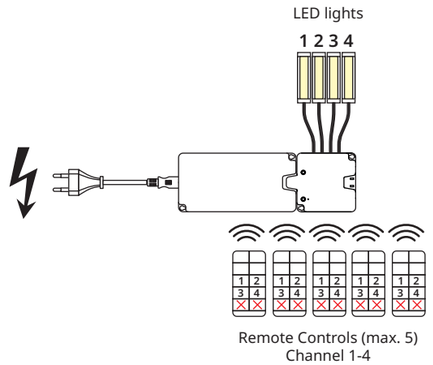
Wireless sensors can be programmed to any LED output. If necessary, a single sensor can be programmed to multiple LED outputs, or multiple sensors can be programmed to a single LED output.



Radio Sensor Module + Remote Control

The remote control is programmed to the module. If necessary, up to 5 remote controls can be connected.





Note!

It is possible to operate wired sensors, wireless sensors, and remote controls simultaneously on the Radio Sensor Module.

Caution:

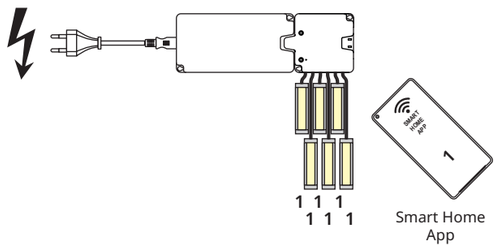
Buttons 5 and 6 have no function for the Radio Sensor Module. Even when multiple Radio Sensor Modules are used, lighting groups 1 through 4 are controlled in each case.

Standard configurations

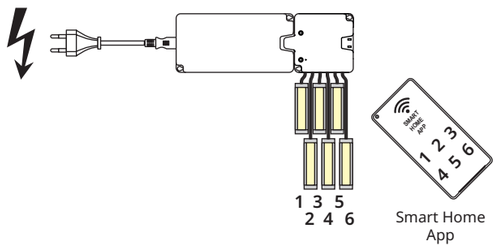
Smart Module + Smart Home App

The existing smart home app that supports the Matter™ standard connects to the Smart Module.

1-Channel Module:



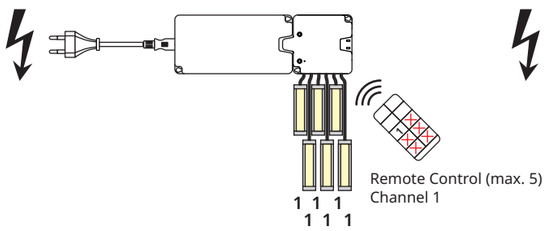
6-Channel Module:



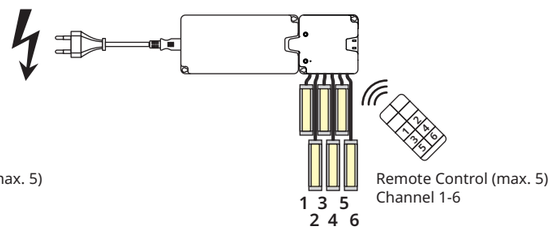
Smart Module + Remote Control

The remote control is programmed to the module. If necessary, up to 5 remote controls can be connected.

1-Channel Module:



6-Channel Module:



Note!

You can use both the app and the remote controls with the Smart Module at the same time (see page 24).

Example Variations

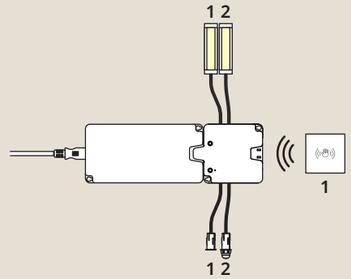
In addition to simple configurations with a single module and a single control type, the modules and input options can be varied. The following examples show a selection of possible variations. Numerous other configurations are also possible.

Variants of the MCS Radio Sensor Module

MCS Driver[1]
+ MCS Radio Sensor Module
+ Wired IR Sensor
+ Wired Motion Detector
+ Wireless IR Sensor

In this configuration, the wired IR Sensor and the wireless IR Sensor jointly control lighting group 1.

Lighting group 2 is controlled by a motion detector.



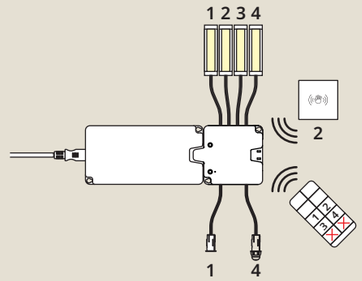
Note:

If a group of lights is controlled by a door contact switch, it should not be combined with another sensor.

MCS Driver[1]
+ MCS Radio Sensor Module
+ Wired Touch Sensor
+ Wired Motion Detector
+ Wireless IR Sensor
+ MCS Remote Control

Here, lighting group 1 is controlled by a wired Touch Sensor, lighting group 2 receives its signals from a wireless IR Sensor, and lighting group 4 is activated by a motion detector.

Furthermore, an MCS Remote Control was programmed to control the color temperature and dimming level for all lighting groups. In addition to Lighting Group 3, it can also turn all sensor-controlled lighting groups on and off, either individually or together.



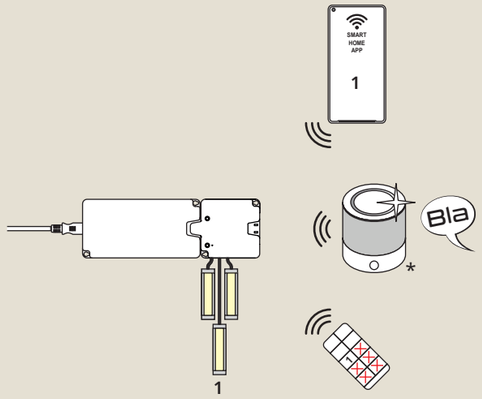
[1] Consider the driver's maximum power rating.

Variants of the MCS Smart Module

MCS Driver[1]
+ MCS 1-Channel Smart Module
+ MCS Remote Control
+ Smart Home System

The lights are controlled together via a Smart Home App and a Smart Speaker, including color temperature and dimming levels.

In addition, the settings can be adjusted using the MCS Remote Control.



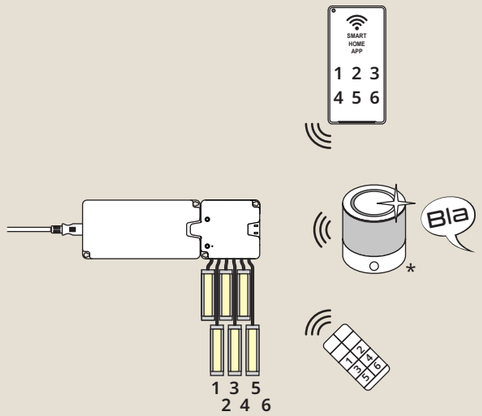
Note:

Smart home systems are not included with the MCS and must be purchased separately (see also the information under “The following platforms and control centers support the MCS Smart Module*:” on page 13)

MCS Driver[1]
+ MCS 6-Channel Smart Module
+ MCS Remote Control
+ Smart Home System

The 6 lighting groups are controlled via a smart home app and a smart speaker, including color temperature and dimming levels.

In addition, settings can be adjusted using the MCS Remote Control.



Note:

Smart home systems are not included with the MCS and must be purchased separately (see also the information under “The following platforms and control centers support the MCS Smart Module*:” on page 13)

[1] Consider the driver’s maximum power rating.

* All trademarks, product names, and company logos mentioned are the property of their respective owners and are protected by law. The information provided is not intended to be exhaustive; no liability is assumed for any changes or new developments by the manufacturers that may have occurred in the meantime.

Example Variations - Multiple MCS Modules

Combination of the MCS Distributor module and other MCS Modules

When using an MCS Distributor Module, you should, under certain circumstances, avoid connecting other types of modules (such as Radio Sensor Modules or Smart Modules). The LEDs on the Distributor Module remain lit continuously and are turned on and off by the power supply—for example, via a switchable outlet.
If another module type is used in addition, it is important to note that the LEDs connected to it can only be controlled when the MCS Driver is powered. If the power supply is interrupted, all modules become inactive.
Combining the MCS Distributor Module with other modules is recommended only if the MCS Driver is permanently connected to the power grid and the continuous operation of the LED lights on the Distributor Module can be guaranteed.

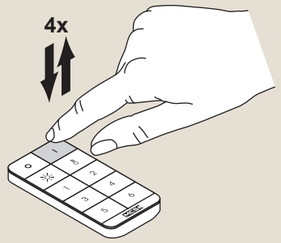
Caution:

Combining the MCS Distributor Module with other MCS modules is only advisable in certain cases.

Synchronization of multiple modules

Operating multiple MCS modules—whether identical or different—is very simple. The MCS modules are plugged into the MCS Driver in any order. A maximum of 5 MCS modules can be operated on a single MCS Driver[1].
Remote controls are programmed separately to each module, as desired.

Once all modules have been programmed to an MCS Remote Control, they are synchronized. To do this, press the On button on the MCS remote control four times in quick succession. The dimming level and color temperature will now be displayed identically on all modules.



Caution:

To sync, use only the “On” button on the remote control.

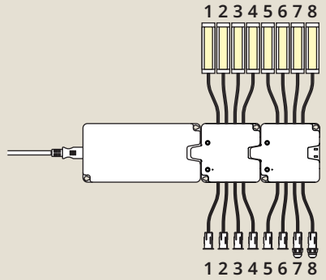
[1] Consider the driver’s maximum power rating.

Multiple Radio Sensor Modules Connected to a single Driver

MCS Driver[1]
+ 2x MCS Radio Sensor Module
+ Wired Sensors

This configuration involves operating two MCS Radio Sensor Modules on an MCS Driver, which are controlled by wired Sensors.

Each sensor controls the corresponding LED output (see also page 20). This allows for the control of up to 8 different lighting groups.



Note:

A maximum of 5 modules, with up to 20 sensors, can be connected to an MCS Driver, with each sensor controlling a group of lights.

Please note the driver's maximum power rating and do not exceed it.

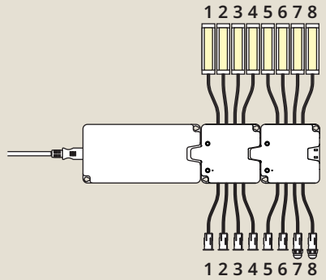
Multiple Radio Sensor Modules connected to a single Driver

MCS Driver[1]
+ 2x MCS Radio Sensor Module
+ 6 wired IR Sensors
+ 2 wired PIR Sensors
+ Wireless IR Sensor
+ Wireless PIR Sensor

In this example, two MCS Radio Sensor Modules are connected to an MCS Driver and controlled by wired sensors.

Each wired sensor controls the corresponding LED output (see also page 20). This allows up to 8 different lighting groups to be controlled.

In addition, a wireless IR Sensor is programmed to channels 1–6, and a wireless PIR sensor is programmed to channels 7 and 8.



Note:

The wireless sensors can be programmed to control multiple groups of lights and can be operated in parallel with the wired sensors.

[1] Consider the driver's maximum power rating.

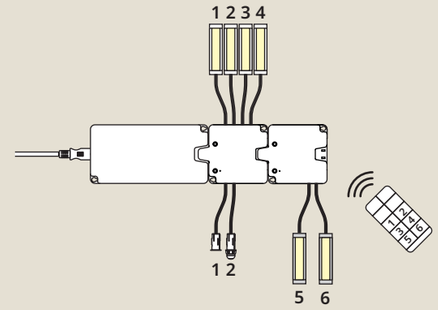
Radio Sensor Module and Smart Module connected to a single Driver (1)

MCS Driver[1]
+ MCS Radio Sensor Module
+ MCS Smart Module
+ Wired IR Sensor
+ Wired Motion Detector
+ MCS Remote Control

In this configuration, the MCS Radio Sensor Module and the MCS Smart Module are operated in combination. Lighting groups 1 and 2 on the MCS Radio Sensor Module are controlled by wired sensors. In addition, all 4 lighting groups are controlled via the remote control.

Lighting groups are connected to LED outputs 5 and 6 on the MCS Smart Module.

This means that all 6 lighting groups can be controlled via the remote control.



Note:

A maximum of 5 modules can be connected to an MCS Driver.

Caution:

Lighting groups 1–4 can only be controlled by the remote control if the remote control has been programmed to the MCS Radio Sensor Module.

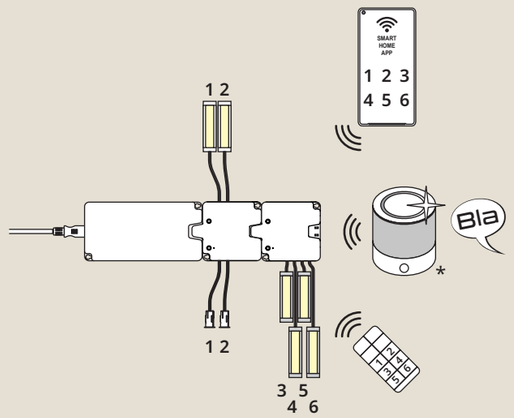
Radio Sensor Module and Smart Module connected to a single Driver (2)

MCS Driver[1]
+ MCS Radio Sensor Module
+ MCS Smart Module
+ 2x wireless IR Sensors
+ 2x wired IR Sensors
+ MCS Remote Control
+ Smart Home App (external)

Combined operation of the MCS Radio Sensor Module and the MCS Smart Module.

Lighting groups 1 and 2 on the MCS Radio Sensor Module are controlled via the wireless IR Sensor, as well as via wired IR sensors and the remote control.

On the MCS Smart Module, lighting groups 3–6 are controlled via the Smart Home App using voice commands and, simultaneously, via the remote control.



[1] Consider the driver's maximum power rating.

THE SMARTEST WAY TO LIGHT



ELEKTRA

ELEKTRA Gesellschaft für elektrotechnische Geräte mbH
Werkstr. 7 · 32130 Enger

info@elektra.de
www.elektra.de