

ELG745010

Sigma care

NNZ42695-01 02/2022

Additional information →

Scan the QR code or follow the link.

Further information about the Sigma Care call system are available online.



ELG745010


[https://www.go2se.com/
ref=ELG745010](https://www.go2se.com/ref=ELG745010)

en Room module with signal lamp

Installation instructions

⚠ ⚠ WARNING

DANGER RISK OF FATAL INJURY FROM IMPROPER INSTALLATION

Safe electrical installation must be carried out by qualified professionals. Qualified professionals must demonstrate an in-depth knowledge of:

- Connecting to installation networks
- Connecting multiple electrical appliances
- Installation of electric cables
- Connection and installation of call systems in accordance with DIN VDE 0834
- Safety standards, local connection rules and regulations

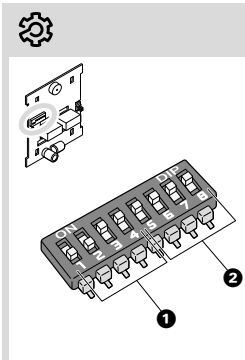
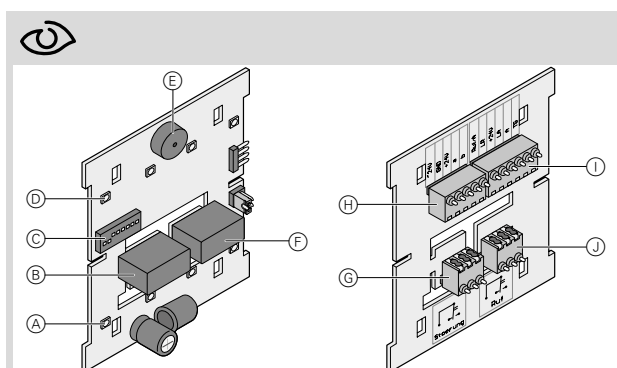
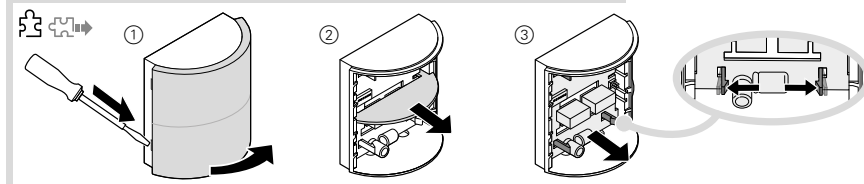
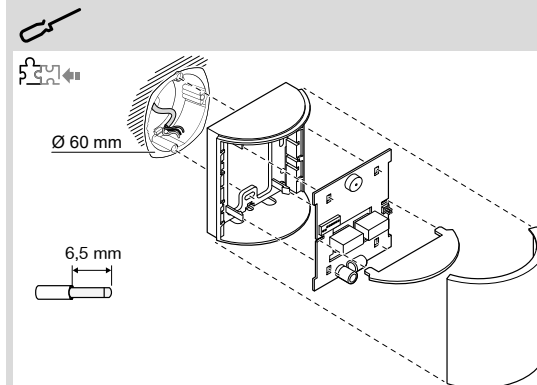
The commissioning and further work or changes to the call system may only be carried out by a call system specialist in accordance with DIN VDE 0834.

Failure to observe these instructions can lead to death or serious injuries.

Additional Information →

Scan the QR code or follow the link.

A detailed description of the room module with signal lamp and other useful information about the Sigma care call system are available online in the Online User Guide.



Getting to know the device

Sigma care devices are installed, for example, in disabled toilets. The room module for simple call systems in accordance with DIN VDE 0834 is used to indicate that a call has been triggered, canceled or forwarded by means of visual and acoustic signals.

Integration into a system bus makes it possible to implement a set-up of small systems comprising up to 10 room modules and central indicator units.

When used as a *group signal lamp*, the device serves as a collective display of calls to the room modules connected to the system bus.

- With red LED signal lamp and sound transmitter to indicate calls.
- With green LED signal lamp to indicate presence of assistance personnel.
- With 2 relays that forward calls or faults to external systems
- With DIL switch for setting the system bus address and function selection.
- Alternative function as group signal lamp can be selected via DIL switch.
 - Function settings are available in the Online User Guide.

Installation location

The room module with signal lamp must be installed where it is clearly visible in the corridor in front of the call location.

Installation / removal →

Installation is carried out on a 60 mm flush-mounted box.

Overview of board →

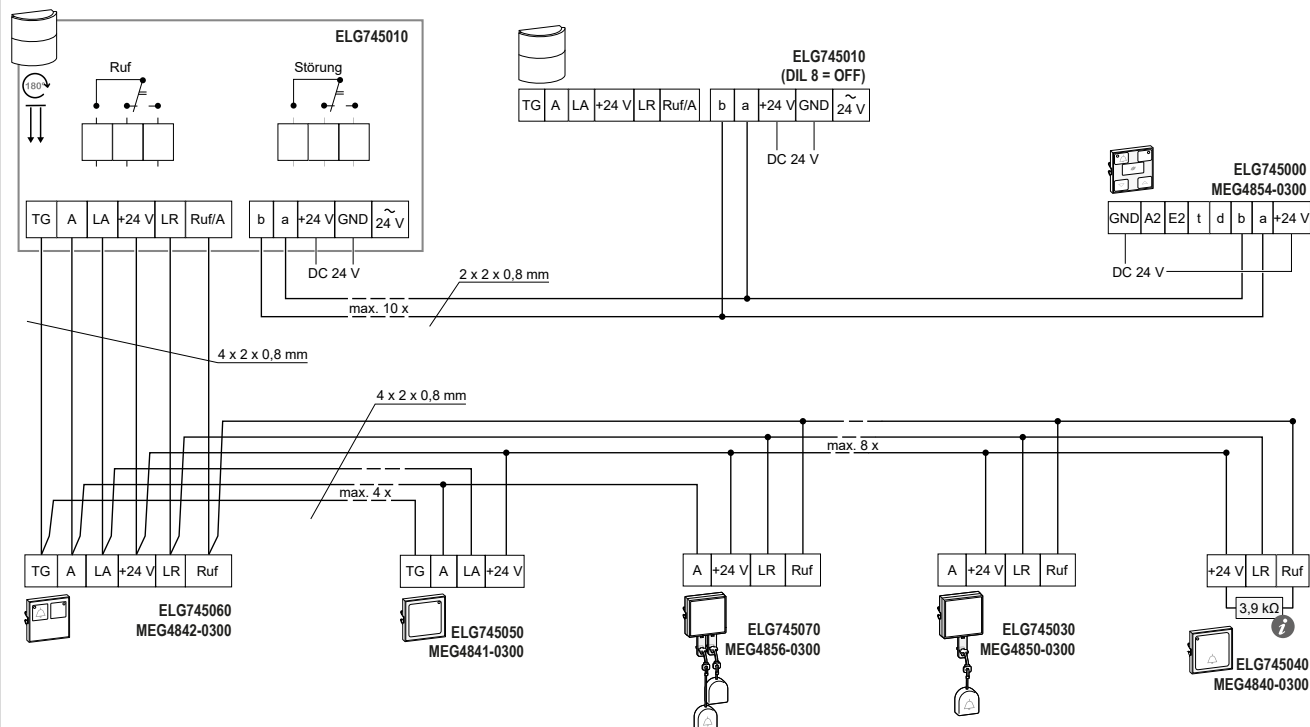
- A** Green signal lamp (4 x LED)
- B** "Call" relay
- C** DIL switch
- D** Red signal lamp (4 x LED)
- E** Internal sound transmitter
- F** "Fault" relay
- G** 3-pole connecting terminal, "Fault" relay alarm contact
- H** 5-pole connecting terminal for connection to the system bus and the operating voltage
- I** 6-pole connecting terminal for connecting buttons
- J** 3-pole connecting terminal, "Call" relay alarm contact

DIL switch assignment →

Note When the device is delivered, the DIL switch is in the factory setting: All switches are in the "ON" position.

- 1** No. 1 - 4, system bus address
- 2** No. 5 - 8, function settings

The assignment of the system bus addresses and a detailed description of all function settings are available in the Online User Guide.



Connection →

Note In case of parallel connection of multiple buttons with call function at a terminal input, the line termination resistor (3.9 kOhm) included in the scope of supply must be installed at the furthest button. It must be installed directly on the module if the call input is not wired.

Note When connecting to the system bus, the maximum cable length of 1,000 m must be observed.

Note Interchanging cables (with regard to the connection diagram) results in malfunctions.

TG	Sound transmitter
A	Cancel / presence button
LA	Presence lamp
+24 V	Direct current operating voltage
LR	Call lamp
Call/A	Call button
b	System bus
a	System bus
+24 V	Direct current operating voltage
GND	Ground
~24 V	Alternating current operating voltage

The line termination resistor is installed between "Call" and "+24 V".

Technical data

Supply

Operating voltage

DC voltage: DC 24 V ±10%

Current consumption (DC)

Standby: 50 mA ±10%
maximum: 120 mA ±10%

Inputs

Call input

Input resistance to GND: 3.77 kΩ ±5%
Terminator (standby) to +24 V: 3.9 kΩ ±20 %
Terminator (call) to +24 V 1.8 kΩ ±20 %
Fault detection: Short-circuit +24 V, short-circuit GND, line interruption / input open

Presence / cancel input

Input resistance to GND: 3.77 kΩ ±5%
Standby: Input open
Terminator active to +24 V: < 1.8 kΩ

Outputs

Output for lamp / display

Current consumption downstream of GND: max. 150 mA
Short-circuit proof to +24 V: ✓

+24 V output for supply to external button / lamp

Current consumption: max. 600 mA
Short-circuit proof by means of PTC fuse, self-resetting: ✓

System bus connection

Line termination "a" to +24 V / line "b" to GND, once per bus line: 680 Ω / 1 W
Cable length: max. 1,000 m
Number of room modules per bus: max. 10

Number of devices per bus including the central indicator, secondary indicator (group lamps), etc.: max. 20

Integrated sound transmitter

Volume: 45 - 50 dB(A) at a distance of 2 m

Connecting terminals

Terminals: 1 plug-in terminal, 6-pole; 1 plug-in terminal, 5-pole; 2 plug-in terminals, 3-pole
Conductors per pole: 2
Stripped length: 6.5 mm

Environmental conditions

Ambient temperature during operation: 0 °C ... 50 °C
Relative humidity: max. 85%, non-condensing

Protection rating:

Cable type: IP20
J-Y(St)Y,
2 x 2 x 0.8 mm

Dimensions (W x H x D): 85 x 85 x 45 mm



Schneider Electric GmbH c/o ELSO

Am der Wipper 5-7 | D-99706 Sondershausen
Tel: +49 3632 51 0
e-mail: info.elso@schneider-electric.com
www.se.com/de

Schneider Electric GmbH c/o Merten

Gothaer Strasse 29 | D-40880 Ratingen
www.merten.de | www.se.com/de