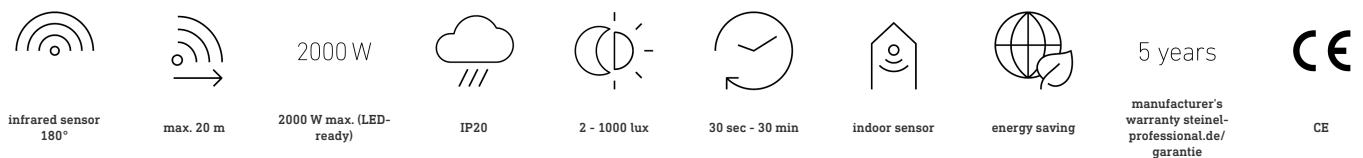


IR 180

COM1 - white
EAN 4007841 029944
Article number 029944



Function description

The new benchmark. High-precision IR 180 infrared presence sensor with a reach of 20 m. Ideal for new builds. 180° angle of coverage. Fast and easy 3-wire installation. Attractive design. Integrated button for manual override. The KNX version also provides temperature and air humidity readings.

Technical specifications

Dimensions (L x W x H)	30 x 80 x 80 mm	LED lamps > 2 W < 8 W	300 W
With motion detector	Yes	LED lamps > 8 W	600 W
Manufacturer's Warranty	5 years	Capacitive load in µF	176 µF
Settings via	Remote control, DIP switches, Potentiometers, Smart Remote	Sensor Technology	Passive infrared
With remote control	No	Mounting height	1,10 – 1,20 m
Version	COM1 - white	Mounting height max.	1,20 m
PU1, EAN	4007841029944	Optimum mounting height	1,2 m
Type	Presence detector	Detection angle	180 °
Application, place	Indoors	Angle of aperture	90 °
Application, room	one-person office, corridor / aisle, function room / ancillary room, kitchenette, stairwell, WC / washroom, Indoors	Sneak-by guard	Yes
		Capability of masking out individual segments	No
Colour	white	Electronic scalability	Yes
Colour, RAL	9010	Mechanical scalability	No
Includes corner wall mount	No	Reach, radial	r = 4 m (25 m²)
Installation site	wall	Reach, tangential	r = 12 m (226 m²)
Installation	Concealed wiring, Wall	Reach, presence	r = 4 m (25 m²)
		Switching zones	96 switching zones

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Technical specifications

IP-rating	IP20
Ambient temperature	0 – 40 °C
Material	Plastic
Mains power supply	220 – 240 V / 50 – 60 Hz
Switching output 1, resistive	2000 W
Switching output 1, number of LEDs / fluorescent lamps	8 pcs.
Fluorescent lamps, electronic ballast	1000 W
Fluorescent lamps, uncorrected	1000 VA
Fluorescent lamps, series-corrected	400 VA
Fluorescent lamps, parallel-corrected	500 VA
Switching output 1, low-voltage halogen lamps	2000 VA
LED lamps < 2 W	100 W

Functions	Normal / test mode, Semi-/fully automatic, Switch active / switch inactive, Manual ON / ON-OFF
Twilight setting	2 – 1000 lx
Time setting	30 s – 30 Min.
Basic light level function	No
Main light adjustable	No
Twilight setting TEACH	Yes
Constant-lighting control	No
Interconnection	Yes
Type of interconnection	Master/master, Master/slave
Interconnection via	Cable

Accessories

EAN 4007841 034160	Adapter frame for IR/HF 180
EAN 4007841 034184	Adapter frame for IR/HF 180
EAN 4007841 034139	Adapter frame for IR/HF 180
EAN 4007841 559410	Service remote control RC8
EAN 4007841 009151	Remote control Smart Remote

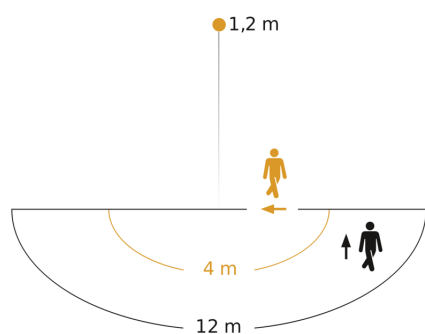
IR 180

COM1 - white

EAN 4007841 029944

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Detection Zone

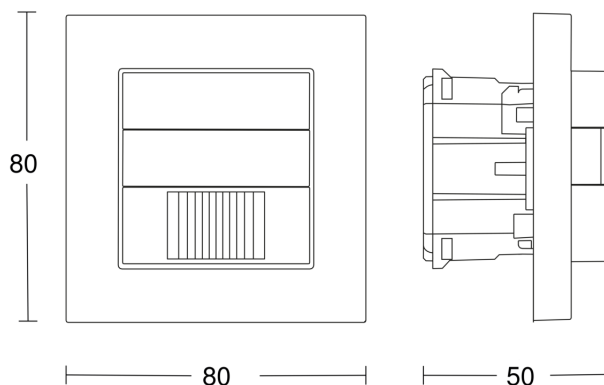


Mögliche Montagehöhe: 1,10 m - 1,20 m

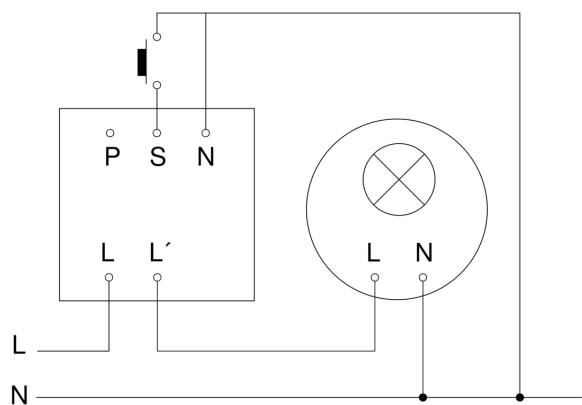
Orange: radial

Schwarz: tangential

Dimension Drawing



Master circuit diagram



The diagram shows two identical parallel circuits connected to a common main power supply. The main supply consists of two horizontal lines at the bottom, labeled 'L' (Live) and 'N' (Neutral). Each of the two parallel circuits is connected to this main supply. The first circuit on the left has a switch and a fuse in its top line, which is connected to the 'L' main line. Its bottom line is connected to the 'N' main line. The second circuit on the right is identical and also connected to the same 'L' and 'N' main lines. Each circuit contains a rectangular box with terminals 'P', 'S', and 'N' on top, and 'L' and 'L'' on the bottom. A lamp, represented by a circle with an 'X' inside, is connected between the 'L' and 'N' terminals of each circuit.

The diagram shows a three-phase motor control circuit. It consists of three contactors (C1, C2, C3) and a thermal relay (FR). Each contactor has three main contacts (P, S, N) and two auxiliary contacts (L, L'). The thermal relay (FR) has two main contacts (L, N) and two auxiliary contacts (L, N). The circuit is connected to a three-phase power supply (L, N). The main contacts of the contactors are connected in series with the main contacts of the thermal relay. The auxiliary contacts of the contactors are connected to the auxiliary contacts of the thermal relay. The thermal relay is connected to the motor (represented by a circle with a cross). The circuit is protected by a fuse (F) and a circuit breaker (CB).