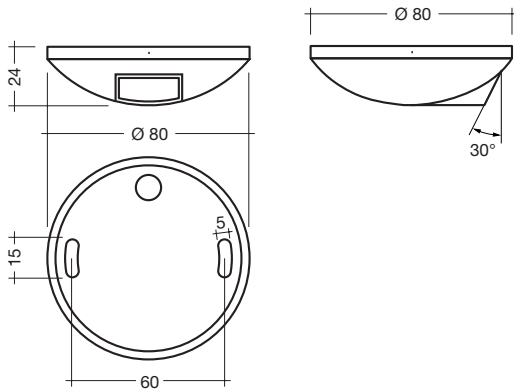


proDIM sensor DAYLIGHT



Application

The proDIM sensor DAYLIGHT light sensor measures the daylight entering the room through the window. Daylight controls proDIM KL3454 use this value for controlling the room lighting.

Approvals:

EN 61547
EN 61347-2-11
EN 61347-1
EN 55015

Glow-wire test

according to EN 60598-1 passed.

Type	proDIM sensor DAYLIGHT
Article number	86458266
Rated voltage	24 V DC (via KL3454)
Signal current	4–20 mA
max. lead length with leads 1.5 mm ²	100 m
Range 1	0–1000 lx
Range 2	0–5000 lx
Terminals	S1, S2; terminals are interchangeable
Spectral behaviour	spectral sensitivity adapted to the human eye with built-in colour correction filter
Operating temperature	0 to +50 °C
Storage temperature	-25 to +85 °C
Weight	approx. 70 g
Dimensions D x H	80 x 24 mm
Relative humidity	95 %, no condensation
Mounting	screw-fixed on the ceiling (see mounting instructions supplied with the product)
Installation position	variable
Protection class	SK II (with protective insulation)
Protection type	IP 20

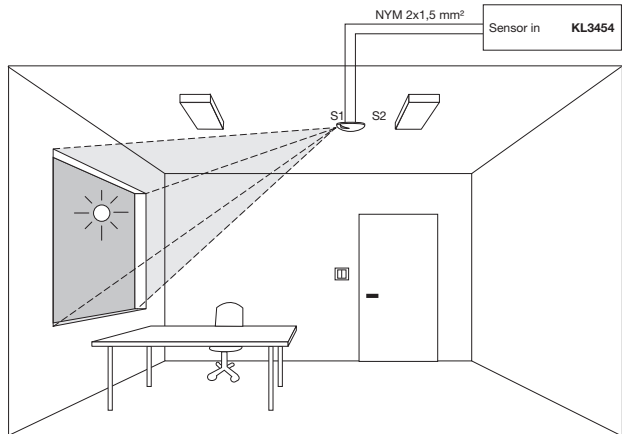
Light sensor (ceiling mounted) used to capture the amount of daylight in the room

Design notes

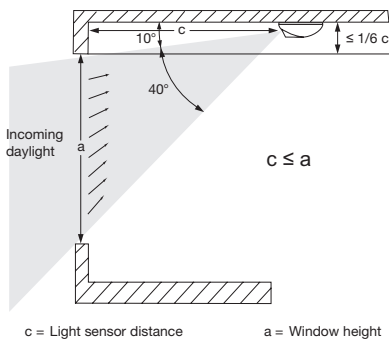
The light sensor is exclusively for capturing the proportion of daylight in the room; The functionality of the daylight-based control depends essentially on the correct positioning of the light sensor:

- The light sensor has to be mounted looking freely in the daylight direction (window).
- Please, avoid the incidence of artificial light and direct sunlight.
- Distance between light sensor and window at most equal to window height: $c \leq a$
- The light sensor is mounted in front of the window's centre; distance between light sensor and window at most equal to window width: $c \leq b$
- If the window lintel heights are much more than one sixth of the light sensor distance the light sensor must be suspended or inclined.
- Please, avoid larger shading of the light sensor's angle of view, e.g. as a result of large window lintel heights, window cross bars or luminaire housings in front of the light sensor. Maximum shading allowed is 15 %.
- In case of different proportions – or if you have concerns about positioning the light sensor – please contact your sales office.
- A two-core cable (0.5–1.5 mm²) is used from the light sensor to the daylight-dependent control device. The maximum length allowed depends on the control device.
- If on account of awkward room geometry (too narrow or built up windows, shadowed ceiling, too large window lintel heights) the daylight at the light sensor is not sufficient for programming a daytime system point (see

daylightbased control module) the light sensor can be switched to a higher sensitivity: Move the internal slide switch on the right next to the terminal for the light sensor line from the bottom position "5000" (dissolution corresponds to approx. 1 lx) to the top position "1000" (dissolution corresponds to approx. 0.2 lx).



Side view



Top view

