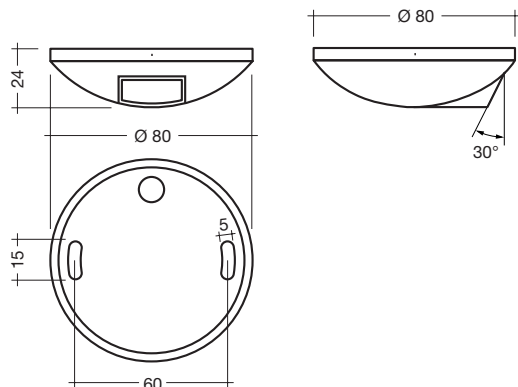


proDIM sensor DAYLIGHT



**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 <sup>2</sup>	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

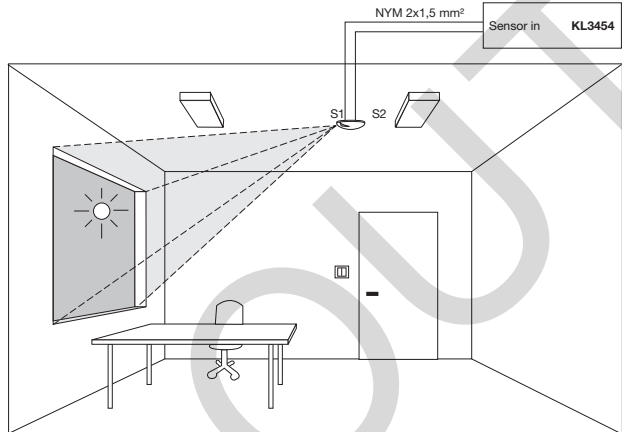
**Light sensor (ceiling mounted) used to capture the amount of daylight in the room**

**Design notes**

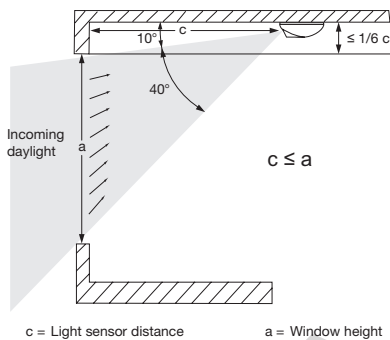
The light sensor is exclusively for capturing the proportion of daylight in the room; The functionality of the daylight-based control depends essentially on the correct positioning of the light sensor:

- 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 mm<sup>2</sup>) 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**

