

LCN-GBL

Presence detector and light sensor in glass design (LCN-GT series)

The LCN-GBL is a presence detector with integrated light sensor for surface mounting in LCN-GT series design. The presence detector works according to the passive infrared principle. It registers changes to the thermal radiation of a (human) body.

Description:

The light sensor is used to register the brightness in rooms. The measured value can be used for constant light control in order to achieve ideal lighting conditions with simultaneous energy saving. The brightness value can be used to control the shading system. The presence/motion detector identifies the motion of persons and objects by their thermal radiation. It can be used, optionally with the integrated light sensor, to switch lightings and for alarm functions in the building security area. The integrated light sensor covers a very large measurement range of 5 decades (1-100,000 lux).

The LCN-GBL can be combined with any I port peripheral equipment at the I port of all intelligent LCN modules (-UPP, -UPS, -UP24, -SH, -SHS, -HU, -LD). The LCN-GBL can take effect on the R1 and R2 controllers as well as the signal thresholds 1-5.

Measured values can be exchanged between LCN modules and used for arithmetic operations.

A humidity sensor (LCN-EFS), which can be subsequent installed, is optionally available for the LCN-GRT. The LCN-EFS supplies humidity and dew point values.

Hardware equipment:

Presence detector

Light sensor

Installation space for LCN-EFS (option)

Housing for wall and ceiling mounting

Cable with plug for I port

Screw terminal for connection via I-Y(St)Y (saves one LCN-IV)



LCN-EFS humidity sensor:

A humidity sensor (LCN-EFS), which can be subsequent installed, is optionally available for the LCN-GBL. The LCN-EFS supplies humidity and dew point values.

Note:

The installation location and position have an influence on the measured values: the installation height and variable heat sources are to be observed. For ideal measurement sensitivity, it is recommended to install the LCN-GBL under the ceiling. The supply line can be extended by up to 50 m.

Detailed information can be found in the installation instructions.

Modells:

LCN-GBL

Color

: white
black

LCN-GBLW
LCN-GBLB

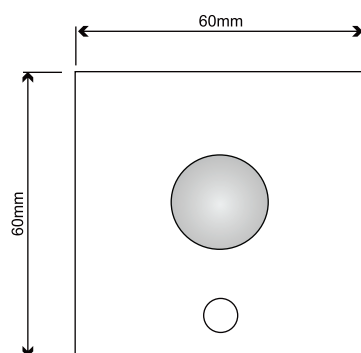


LCN-GBL

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Dimensions:

Housing (WxL xH):	60mm x 60mm x 30mm
Depth:	18mm
Supplied flat cable:	280mm



Assembly:

Wall- or ceiling-mounted on 35mm light outlet box or screw mounting

Frame:

Available in white and black, customised special colours on request.

Technical data:

Connection

Supply voltage:	not necessary (I-port-connection)
Power consumption:	<0,1W

Presence detector:

Scope:	typ. 10m
Method:	PIR (passive infrared)
Detection area:	110°
Debouncing time:	5 seconds

Light sensor:

Measurement spectrum:	450-650nm
Measurement range:	1-100.000Lx
Accuracy:	±15% out of range
Resolution:	1% of Lux-value

Ports:

I-port:	Circuit connectors or spring clips
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Recessed moisture sensor:

Humidity	
Resolution:	1%
Accuracy at 20-80% humidity:	±4%
Out of range:	±6%

Dew point

Resolution:	0,1°C
Accuracy at 20-80% humidity and 10-40°C ambient temperature:	±2°C

General data:

Operating temperature:	-10C to +60C
Humidity:	max. 80% rel., no condensation
Environmental conditions:	stationary installation VDE 632, VDE 637
Safety classification:	IP 20

Circuit Diagram

