MX-PD102
Smart Lock

Overview

The Sensor KNX MX-PD102 for the KNX bus system captures the presence of persons even in the event of slight movements, such as sedentary activity in the office. Permanentbrightness monitoring means that the light can be switched off from an adjustable brightness value.

The Sensor Mini-Sewi KNX MX-PD102 additionally measures the temperature and the air humidity and calculates the dew-point. Via the bus, the indoor sensor can receive external values of temperature and humidity and process them further with its own data to a total value (mixed value, e.g. room average). Integrated PI-controllers control ventilation (humidification/dehumidification according to humidity) and heating/cooling (according to temperature).

The Sensor Mini-Sewi KNX MX-PD102 can output a warning to the bus as soon as the comfort field, as per DIN 1946, is left. Actuating variable comparators can compare and output variables that were received via communication objects.

Features

1. Brightness measurement with brightness control

2. Presence of persons is detected

3. Threshold values can be adjusted per parameter or via communication objects

4. 4 AND and 4 OR logic gates, each with 4 inputs. All switching events as well as 16 logic inputs (in the form of communications objects) can be used as inputs for the logic gates. The output of each gate can be configured optionally as -1bit or 2 x -8bit

5. Configuration is made using the KNX software ETS

Specification

Model	MX-PD102
Housing	Plastic, glass
Colour	White matt
Assembly	Surface, ceiling installation
Dimensions	approx. 51 mm x approx. 19 mm
Degree of protection	IP 30
Weight	approx. 20 g
Ambient temperature	-20~60℃
Ambient humidity	5...95% RH, non-condensing
Storage temperature	-30…+70℃
KNX medium	TP1-256
Configuration mode	S-Mode
Group addresses	max. 254
Assignments	max. 254
Communication objects	122
Nominal voltage KNX	30 V DC SELV
Power consumption KNX	max. 10 mA
Connection	KNX plug terminals
Duration after bus voltage restoration until data is received	approx. 5 seconds
Measurement range	0 lux … 2,000 lux (higher values can be measured and output)

MX-PD102 — Smart Lock

Specification

Model	MX-PD102
Resolution	1 lux at 0…2,000 lux
Detection method	Passive infrared method (PIR)
Coverage angle	approx. 94° × 82° (see also Coverage area of the presence detector)
Range	approx. 5 m
Temperature Measurement range	-20°C … +60°C
Temperature Resolution	0.1°C
Humidity Measurement range	0% rH … 100% rH
Humidity Resolution	0.1% rH