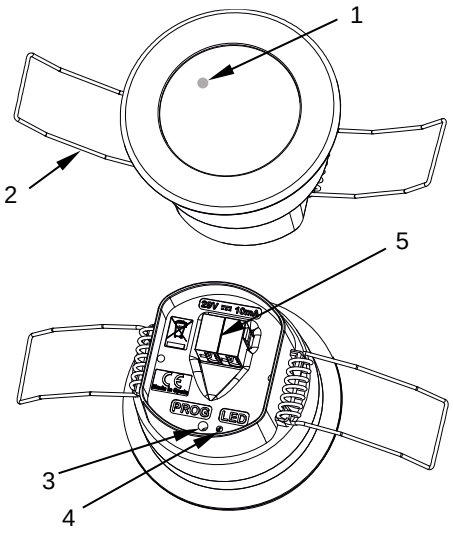
EyeZen TP

Motion detector with luminosity sensor for ceiling mounting

ZPDEZTP **TECHNICAL DOCUMENTATION**

FEATURES

- Presence detection through PIR technology.
- Detection diameter of up to 6m.
- Lighting level sensor with human eye spectral sensitivity.
- 6 presence detector channels.
- 2 constant light regulation channels.
- Occupancy detection.
- 10 logic functions.
- Total data saving on KNX bus failure.
- Integrated KNX BCU.
- Dimensions: Ø48.3 x 41mm.
- Cutting diameter (hole saw blade): Ø51mm.
- False-ceiling flush-mounted.
- Conformity with the CE directives (CE-mark on the back side).



1. Detection LED indicator	2. Retaining spring	3. Programming button
4. Programming LED		5. KNX connector

Programming button: short press to set programming mode. If this button is held while plugging the device into the KNX bus, it enters the safe mode.

Programming LED: programming mode indicator (red). When the device enters the safe mode, it blinks (red) every half second. During the start-up (reset or after KNX bus failure) and if the device is not in safe mode, it emits a red flash.

GENERAL SPECIFICATIONS

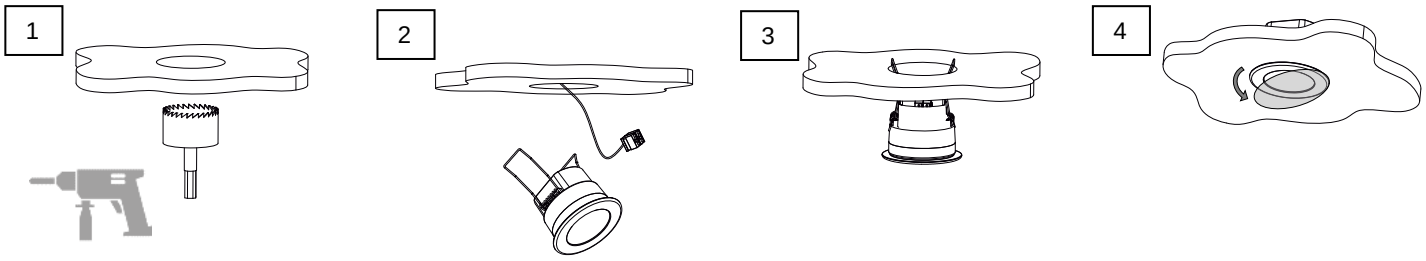
CONCEPT			DESCRIPTION	
Type of device			Electric operation control device	
KNX supply	Voltage (typical)		29VDC SELV	
	Voltage range		21..31VDC	
	Maximum consumption	Voltage	mA	mW
		29VDC (typical)	4	116
		24VDC[1]	10	240
	Connection type		Typical TP1 bus connector for 0.80mm Ø rigid cable	
External power supply			Not required	
Operation temperature			0°C .. +45°C [2]	
Storage temperature			-20°C .. +55°C	
Operation humidity			5 .. 95%	
Storage humidity			5 .. 95%	
Complementary characteristics			Class B	
Protection class			III	
Operation type			Continuous operation	
Device action type			Type 1	
Electrical stress period			Long	
Degree of protection			IP20, clean environment	
Installation			Flush-mounted in false ceiling.	
Minimum clearances			Not required	
Response on KNX bus failure			Data saving according to parameterization	
Response on KNX bus restart			Data recovery according to parameterization	
Operation indicator			The programming LED indicates programming mode (red). The motion sensor initialization, after powering up the device, is indicated through the detection LED (red blinking). The motion detections are indicated by a red flash (in case the LED is enabled).	
Weight			39g	
PCB CTI index			175V	
Housing material			PC/ABS FR V0 halogen free housing and HDPE lens.	

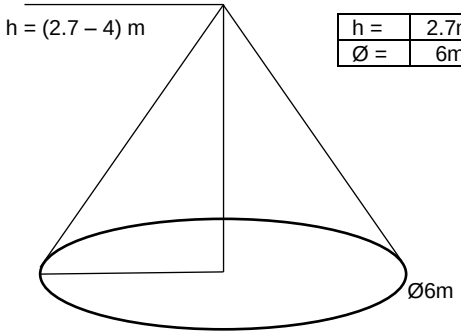
[1] Maximum consumption in the worst-case scenario (KNX Fan-In model).

[2] Temperatures over 35ºC could decrease the detection range

INSTALLATION INSTRUCTIONS

1. Make a **Ø51mm** hole on the ceiling.
2. Recover the wiring and connect it to the device.
3. Insert the device into the ceiling hole and allow the retaining springs to close.
4. Fix it, paying attention that it is correctly leveled and oriented, and remove the protective plastic film from the lens.





h =	2.7m	4m
Ø =	6m	6m

Figure 2: Movement detection range

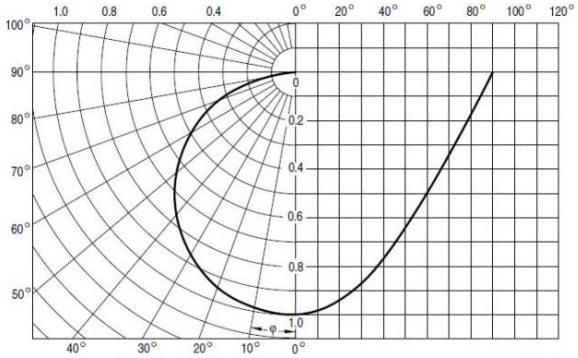
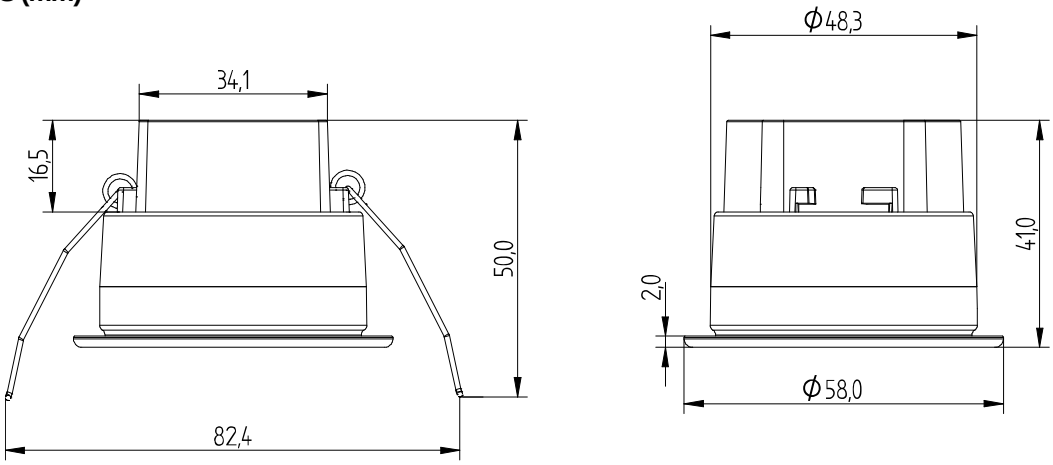


Figure 3: Lighting level sensor sensitivity according to light angle

DIMENSIONS (mm)



SAFETY INSTRUCTIONS

- Installation should only be performed by qualified professionals according to the laws and regulations applicable in each country.
- Do not connect the mains voltage nor any other external voltage to any point of the KNX bus; it would represent a risk for the entire KNX system. The facility must have enough insulation between the mains (or auxiliary) voltage and the KNX bus or the wires of other accessories, in case of being installed.
- Keep the device away from water (condensation over the device included) and do not cover it with clothes, paper or any other material while in use.
- The WEEE logo means that this device contains electronic parts and it must be properly disposed of by following the instructions at http://zennio.com/weee-regulation.
- This device contains software subject to specific licences. For details, please refer to http://zennio.com/licenses.