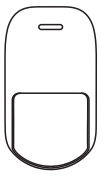
TELETEK
PIRIN MW



INCERT CERTIFICATION CE

Grade 2 Class II

EN 50131-1:2006/A1:2009/A2:2017/A3:2020
EN 50131-2-4:2020
CEB T 031:2017+A1:2018+A2:2022

Read carefully the instruction manual before starting the installation! This manual is subject to change without notice!

18021298, Rev.A, 05/2023

Functional Features

- Dual detector (PIR+MW);
- Digital processing algorithm;
- Sensitivity adjustments for MW and PIR parts;
- Digital bi-directional temperature compensation;
- Simple screw-free structure for easy installation;
- "Triple Knock" operation function;
- Selectable AND or OR operation function;
- PET Immunity up to 15kg (PIR part only);
- Reverse polarity protection;
- On board EOL resistors for Tamper and Zone Alarm - ready for using with Eclipse series alarm control panels;
- Creep zone protection (the space underneath the detector, which can be mechanically disabled or enabled);
- Optional ball-joint mounting bracket;
- Optional PIRIN mounting bracket for wall/ceiling mounting;
- Color coded terminals for quick and easy recognition during the installation;
- Separate PIR and MW LED indication.

Note: *The sensor must be supplied by an ES1 PS2 energy source.*

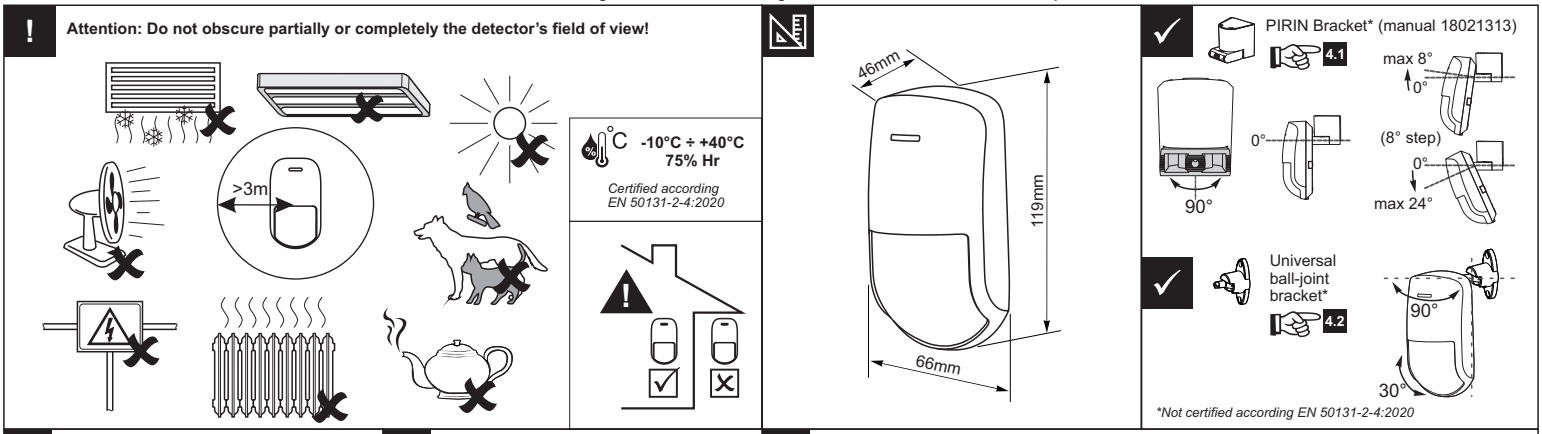
Technical Specifications

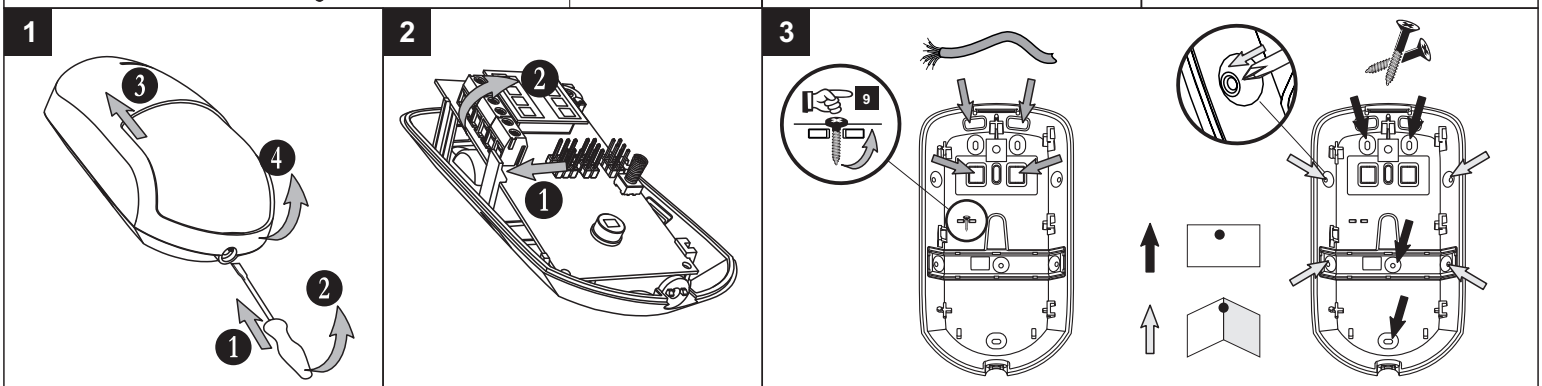
Operating voltage	9 - 18 V DC
Current consumption - Standby	14 mA@12V DC
Current consumption - Alarm	max. 42 mA@12V DC
Alarm relay (on board, built-in, NC type)	1K, 2K2
Tamper relay (on board, built-in, NC type)	1K, 510Ω, Short
Working temperature	-15°C - +50°C*
RF immunity	10 V/m @ 80 MHz - 6 GHz
Electrostatic immunity	8 kV
Walk detection speed	0.3m/s - 3m/s
Coverage angle - PIR	90°
Coverage range - PIR (creep zone protected)	0.5 - 12m
Coverage range - PIR (creep zone ignored)	1.5 - 12m
Coverage range - MW	0 - up to 15m
Adjustment sensitivity range - MW	5 - 15m
Mounting height	1.5 - 2.5m (2.1m)
Number of detection zones - PIR	71
Dimensions	119 x 66 x 46mm
Weight	~ 72 g
Warm up time	50s
Material, color	ABS, white (RAL 9003)

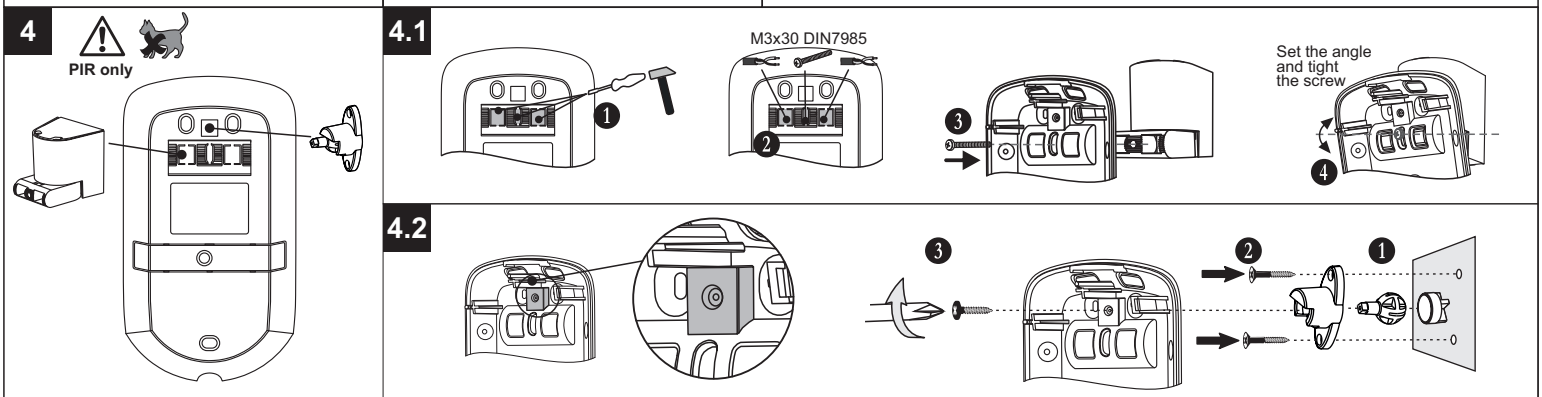
**Not certified according EN 50131-2-4:2020*

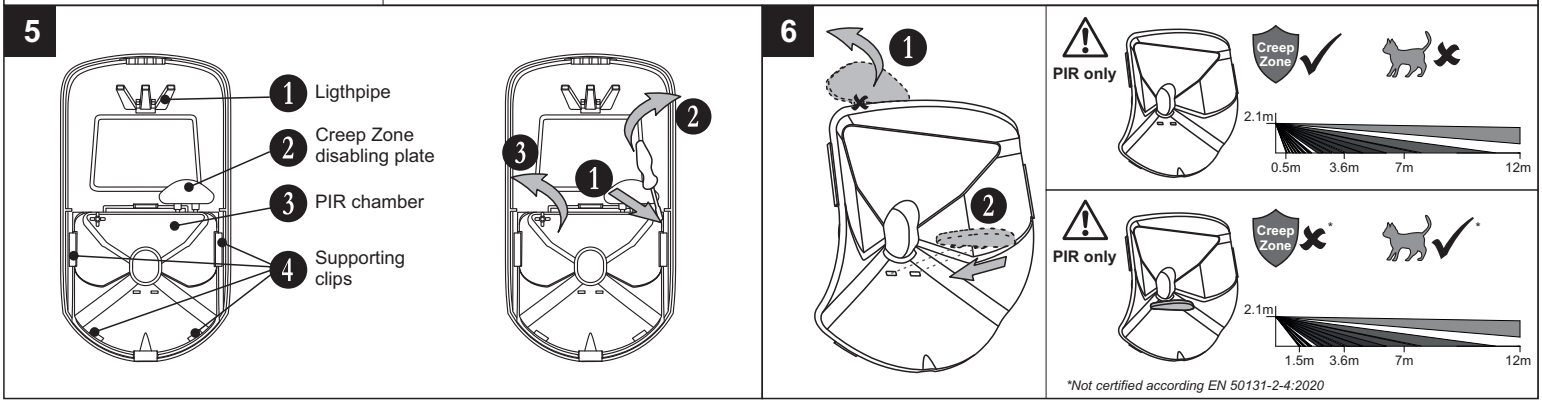
Test

The walk test is a consecutive coverage zones determination (see the diagram). To perform this test, walk through a selected coverage zone. Make sure the LED goes on when entering the zone. It is recommended to perform this test each week.



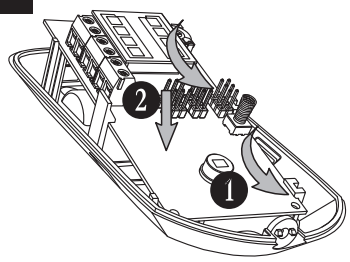




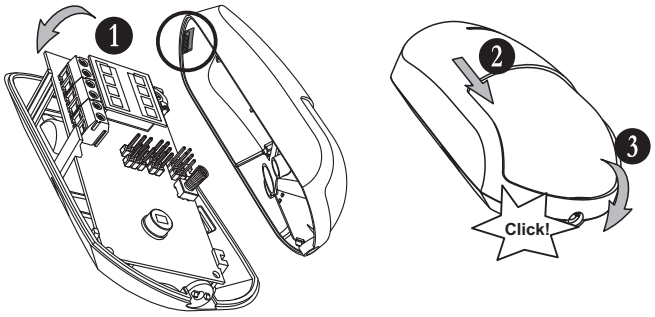


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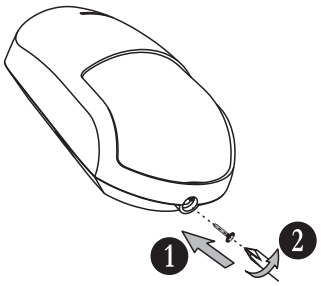
7



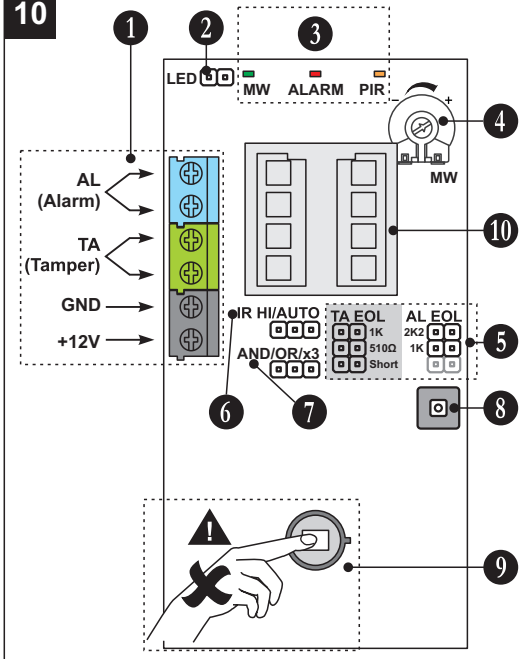
8



9

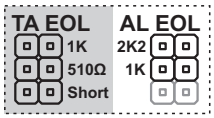


10

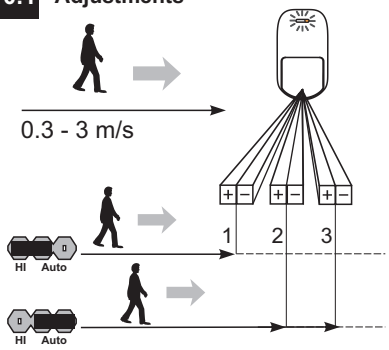


PCB Elements

1. Terminals for connection to control panel.
2. LED enable/disable terminals - see 10.2.
3. LED indicators: MW sensor (green), Alarm indication (red), PIR sensor (yellow).
4. Adjustment of the MW range: min. 5m - max. up to 15m. Use a small flat screwdriver to set: rotate clockwise to increase, or counterclockwise to decrease the MW coverage range for alarm activation - see 10.5.
5. Tamper (TA) and Alarm (AL) EOL resistor terminals for selecting the EOL resistor value used for wiring applications - see 10.6. Ready for use with Eclipse series control panels.
6. IR HI/AUTO terminals - see 10.1.
7. AND/OR/x3 terminals for setting the alarm operation mode - see 10.3 and 10.4.
8. Tamper switch for self-protection of the cover.
9. IR sensor. Do not touch!
10. MW module. Do not touch!



10.1 Adjustments



10.2 LED Indication



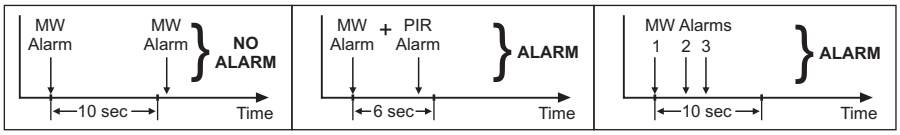
10.3 AND/OR/x3 Jumper - Alarm Operation Settings

Use these terminals to select the alarm operation mode of the PIR and MW sensors of the detector:

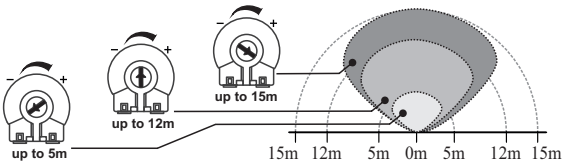
Setting	Mode	Description	Note
	OR*	PIR = ALARM; MW = ALARM	
	AND	PIR and MW = ALARM	(up to 15 kg)
	x3*	**Triple knock** - see item 10.4	

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10.4 Triple Knock Alarm Operation Mode



10.5 MW Sensitivity Range Settings

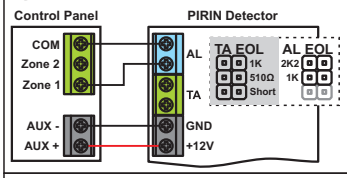


10.6 On-board EOL Resistors

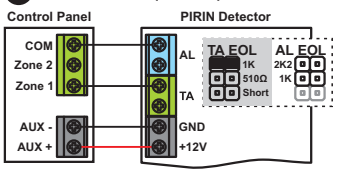
Attention: The relays TA (Tamper) and AL (Alarm) are NC type. No NO type wiring diagrams are possible for realization. If the EOL wiring is not used, leave the TA and AL jumpers off. To set ON a value, place a jumper on the respective terminals. To set OFF a value, remove the jumper (if set).

The on-boards resistors are fully compatible with the wiring diagrams for single (1-5) and doubling (6-9) zone connection of Eclipse series alarm control panels. The used range of resistor values cover also majority of installations with third-party intruder control panels. PIRIN MW comes with factory set 1K jumper on TA EOL terminals, which corresponds to connection diagram style 2 in Eclipse panels. The correspondence of the other Eclipse connection styles is as follows:

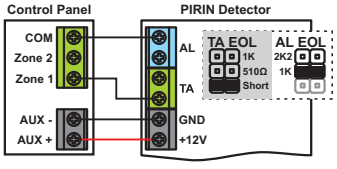
1 NC without EOL



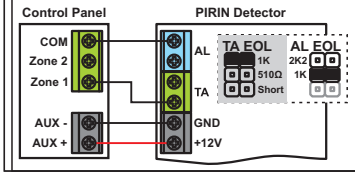
2 NC with EOL (default)



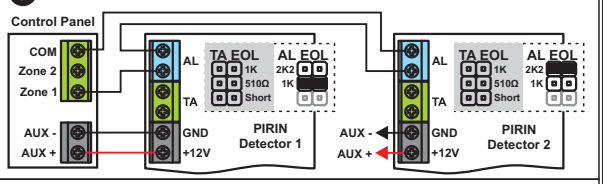
4 NC without EOL, Tamper Recognition



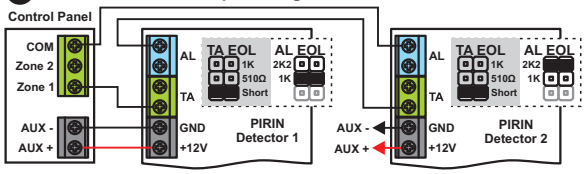
5 NC with EOL, Tamper & short-circuit recognition



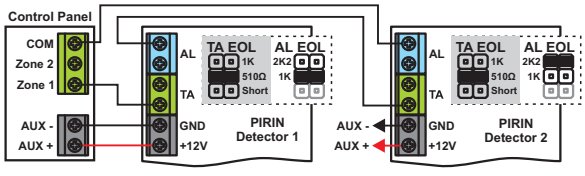
6 NC without EOL



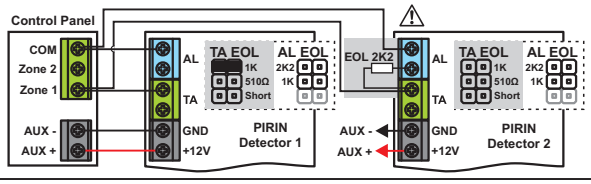
7 NC without EOL, Tamper recognition



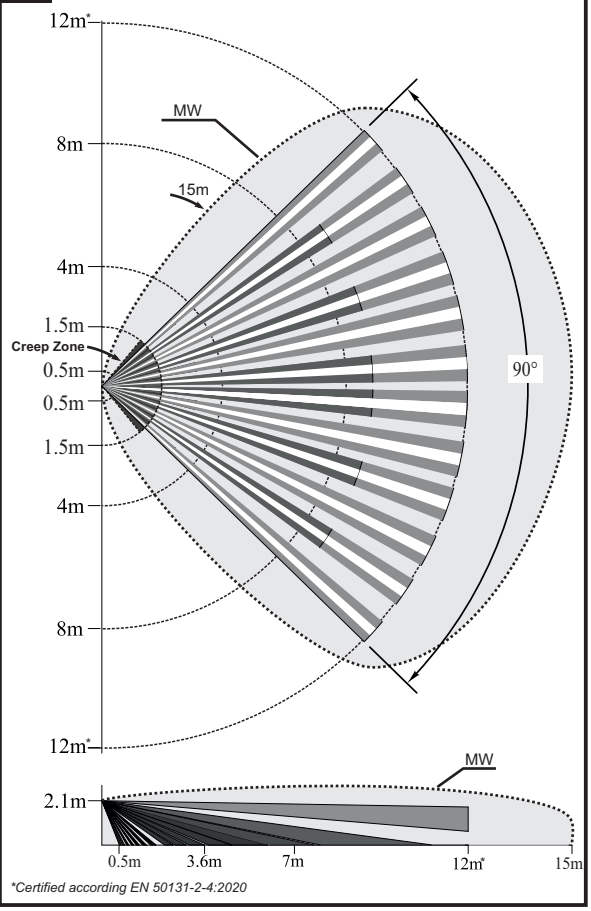
8 NC with EOL, Tamper recognition



9 NC without EOL, no Tamper (parallel connection)



11 LENS PATTERNS



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