OPAL

OUTDOOR PIR + MW DUAL TECHNOLOGY MOTION DETECTOR

The OPAL is an outdoor dual technology motion detector, which is perfectly suited for application both on the outside of the protected building as well as indoors, where difficult or specific environmental conditions prevail (in halls, under umbrella roofs, etc.). The OPAL detector incorporates PIR and MW technologies, as well as antimasking function based on the microwave technology. The dual technology combined with the algorithm of detector auto–tuning to the environmental conditions ensures high immunity to false alarms and, consequently, stable operation in harsh weather conditions, such as rain, snow, sunshine and strong gusts of air. The device offers correct operation in a wide temperature range from –40 °C to +55 °C, the ambient temperature changes being automatically compensated.



The OPAL detector has a detection angle as wide as 100 degrees and a reach of more than 15 meters. Also, as the look down zone is protected, any intruder's attempt to approach the device to damage it or pull it off will be detected. In addition, the detector software has been designed so as to avoid false alarms caused by the movement of small pets.

Also the device enclosure is unique, as it is made using two–component injection molding technology. The result of it is a splash–proof IP54 rated design, which protects the OPAL electronics against harmful atmospheric phenomena. The detector enclosure is also characterized by high mechanical strength and resistance to UV radiation.

The OPAL detector is designed for mounting directly on a flat surface. If the detector is to be turned vertically or tilted horizontally, you can use special angle–type or ball–joint type brackets from the **BRACKET C** set (white) or **BRACKET C GY** set (gray).

The OPAL detector is available in two color versions: white (**OPAL**) and gray (**OPAL GY**).

- dual technology: PIR and microwave
- anti–masking function based on the microwave technology
- configuration of the sensitivity of detection paths using the PCB buttons
- splash–proof polycarbonate enclosure, IP54 rated
- tamper protection against opening and detachment
- digital temperature compensation for correct detector operation in –40 °C to +55 °C temperature range
- can be used in adverse weather conditions (rain, snow, fog, strong wind)
- high immunity to false alarms because of the use of auto–tuning algorithm
- look down creep zone control
- small animal immunity option (up to 20 kg)
- low power consumption
- can be installed directly on a flat surface or with the use of dedicated brackets from BRACKET C set:
    - angle type bracket: constant 45° angle
    - ball–joint bracket: adjustable vertically through 60° and horizontally through 90°

The actual appearance of the products may differ from the presented images. Product descriptions are provided in the web service for information purposes only.

TECHNICAL DATA

Supply voltage	12 V DC
Detected target velocity	0,3...3 m/s
Operating temperature range	-40...+55 °C
Recommended mounting height	2,4 m
Standby mode current consumption	12 mA
Max. current consumption	20 mA
Relay contacts rated load (resistive)	40 mA / 16 V DC
Maximum humidity	93±3%
Dimensions	65 x 138 x 58 mm
Environmental class according to EN50130-5	IIIa
Alarm signaling time	2 s
Complied with standards	EN50131-1, EN50130-4, EN50130-5
Microwave frequency	24 GHz
Warm-up period	40 s
IP code	IP54
Detector weight (without bracket)	174 g
Permissible load of D/N output (OC-type output)	50 mA / 12 VDC

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