

OPM 3020/303

PASSIVE INFRARED AND MICROWAVE COMBINATION DETECTOR

OPM-303/OPM-3020 REDWAVE® is a totally new type of outdoor combination detector that sets a new standard in false alarm prevention and has been specifically designed for use in Remote Video and CCTV applications. In addition to using passive infrared (PIR) and microwave technology as in conventional combination detectors, REDWAVE® advances further with the world's first A.M.R.L. (Adjustable Microwave Range Limiter) technology, which lets users adjust the detection distance, and Dual Quad Zone Logic PIR, which uses two PIR detectors to increase detection density and eliminate undetectable areas. With REDWAVE®, Optex offers a new solution to outdoor false alarms.

If your site requires the installation of multiple Redwave units mounted in close proximity to each other, then care should be taken to select units with different microwave frequencies. This will eliminate the possibility of microwave crosstalk which could cause false activations.

FEATURES

- BS8418 compliant
- A.M.R.L. – Adjustable Microwave Range Limiter Technology greatly reduces the potential for false or missed alarms
- Repetitive Movement Discrimination automatically adjusts the microwave's sensitivity to its surrounding environment.
- Small Animal Immunity Function allows the detector to discriminate between the sizes of moving objects, virtually eliminating problems caused by small animals.
- IP55 rating
- Simple 3-step walk test

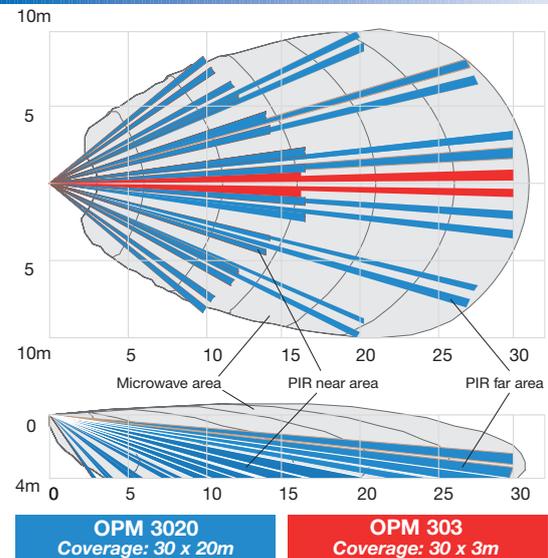
ACCESSORIES

- Pole mount bracket - LRPSCA
- Audio walk tester - OPM-WT

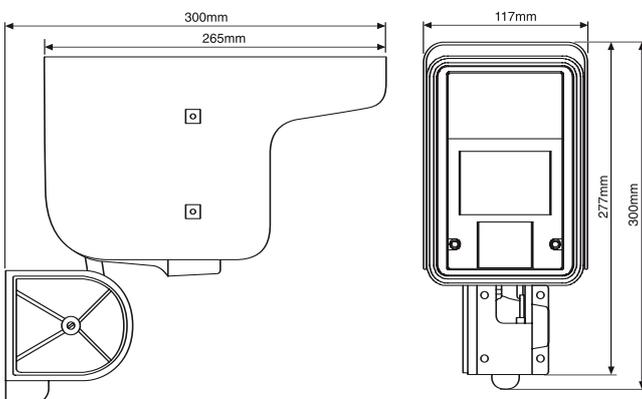
OPTIONS

- OPM-3020 Ch A – standard model (30m x 20m coverage)
- OPM-3020 Ch B – channel B model (30m x 20m coverage)
- OPM-3020 Ch C – channel C model (30m x 20m coverage)
- OPM-303 Ch A – standard model (30m x 3m coverage)
- OPM-303 Ch B – channel B model (30m x 3m coverage)
- OPM-303 Ch C – channel C model (30m x 3m coverage)

COVERAGE



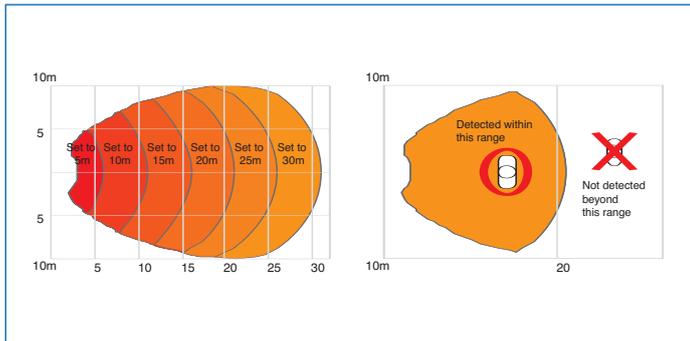
DIMENSIONS



Dimensions vary depending on tilt of head

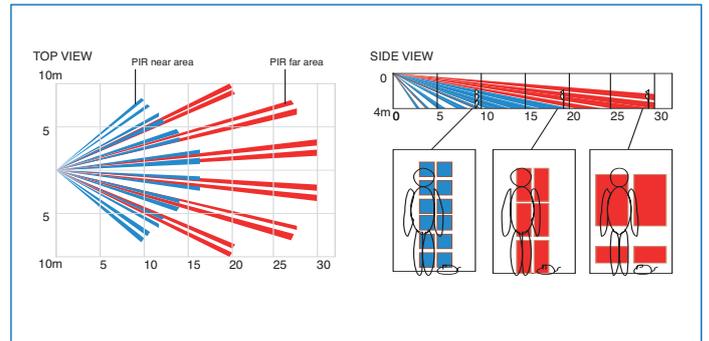
A.M.R.L. TECHNOLOGY

With a conventional outdoor combination detector, microwave transmission distances are not easily adjusted, resulting in many false alarms being triggered from outside the detection area. Incorporating the world's first A.M.R.L. technology, REDWAVE lets you choose the ideal detection distance with a dial setting that offers seven 5 m intervals between 0 m and 30 m. By optimising the detection distance for each application, false alarms are greatly reduced.



DUAL QUAD ZONE LOGIC PIR

REDWAVE offers unparalleled reliability with two, vertically configured PIR detectors that create two different, highly dense detection areas — a near and far area. This dual coverage essentially eliminates dead detection spots, preventing the possibility of missed alarms. What's more, the sensitivity of each area can be adjusted separately using the PIR Sensitivity Selector Switch. Each PIR utilises Quad Zone Logic, providing multi-segmented detection zones throughout the detection area and an alarm signal based on the cumulative IR energy of each zone. This greatly reduces false alarms, particularly those caused by sudden small temperature changes from light reflection or small animals.



Model	OPM-3020	OPM-303
Detection method	Passive infrared and microwave	
Coverage	30 x 20 m wide	30 x 3 m narrow
Mounting height	2.4 to 4.0 m	
LED indicator	Green: PIR detection / Yellow: MW detection / RED: PIR and MW detection	
Alarm period	Approx. 2 sec.	
Alarm output	N.C. 28 VDC, 0.2 A max. / N.O. 28 VDC, 0.2 A max.	
Tamper switch	N.C. / 28 VDC, 0.1 A max.	
Warm-up period	Approx. 60 sec.	
Power input	11 to 24 VDC	
Current draw	45 mA max. (at 12 VDC) / 250 mA max.(at 12 VDC, using OPM-WT)	
Weight	1.5 kg	
Operating temperature	-25°C to +60°C	
Environmental humidity	95% max.	
Microwave frequency	10.587 GHz (E version) / 9.900 GHz (F version)	
IP rating	IP55	

This unit is designed to provide a video image for the purposes of security and observation monitoring. It is NOT a burglar/theft prevention device and we cannot accept responsibility for any losses, should they occur.

Due to continued improvements, specifications are liable to change without notice
This Product conforms the EMC directive 89/336EEC

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