

# MAGIC PIR AND DUAL MOTION DETECTORS

Advanced security and reliable  
detection for a convenient and  
cost-effective intrusion solution

## PDM-I12



- ✓ Certified to Meet Security Standards
- ✓ Anonymity in Design
- ✓ Error-Free Installation
- ✓ Fast, Easy Set-Up
- ✓ Available in white or black housings



## PDM-I18



**acre security** is a global leader in the delivery of digital and physical security solutions. Keeping your people, premises, and data safe is as important to us as it is to you. Working across banking, education, healthcare, pharmaceutical, retail, and more, we give our customers peace of mind that their data, offices, and employees will stay safe.

Our MAGIC detectors, with precision-engineered sensors and advanced motion detection algorithms, offer unparalleled accuracy and reliability in detecting movement, ensuring that your premises remain safeguarded at all times. Explore the features that set our motion detectors apart and discover the peace of mind that comes with superior security solutions.

## RELIABLE DETECTION

- **Patented MAGIC Mirror Technology**  
Double-mirror principle ensures uniform coverage and sensitivity across the entire detection field and provides unmatched detection performance.

## EXTRAORDINARY ACCURACY

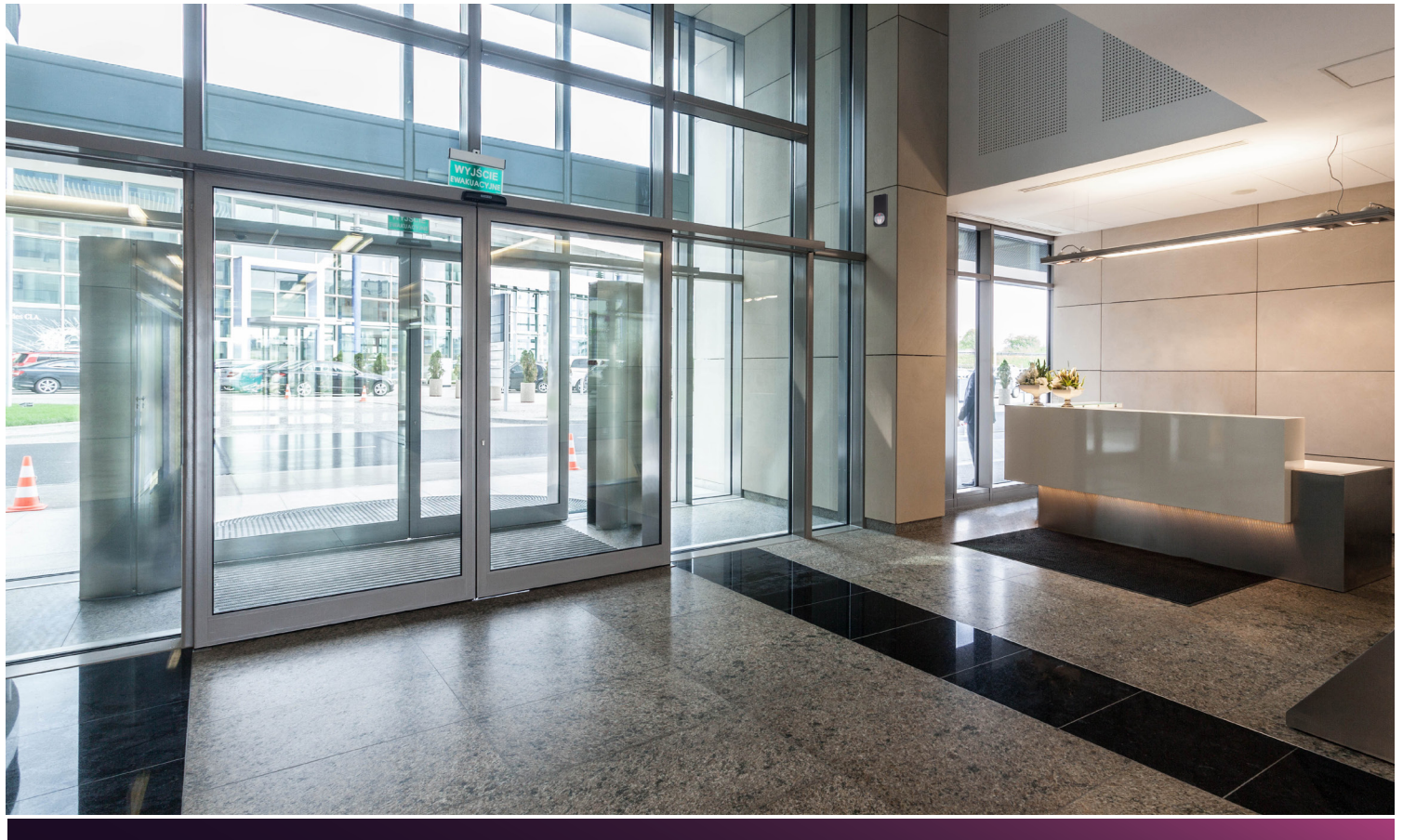
- **Innovative Algorithms**  
The enhanced Visatec algorithm and Matchtec algorithm make an unbeatable team with the Magic Mirror for extraordinarily accurate decisions on motion within their detection zones.



## HIGH SECURITY LEVEL



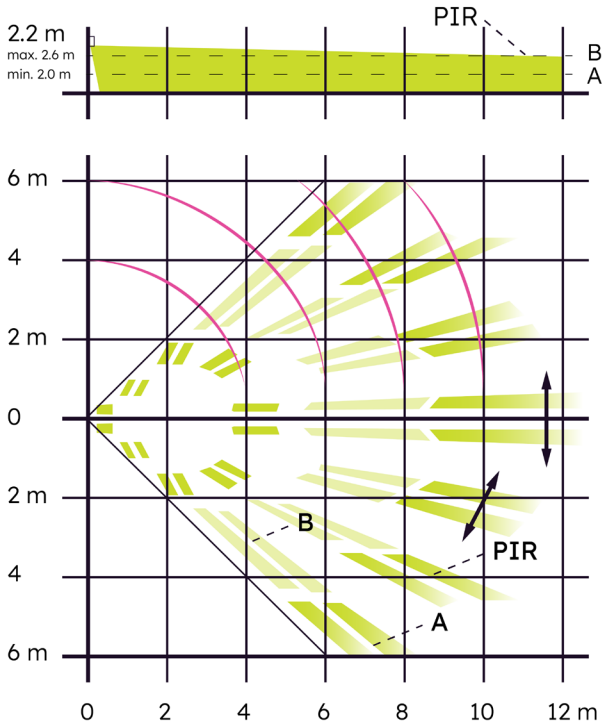
- **Built-in Anti Mask Feature (optional)**  
The integrated anti-mask feature, available on certain detectors, consistently identifies attempts to cover the detector thereby increasing security protection.
- **Security Standards Certifications**  
Our detectors meet the most stringent security standards including VdS Class C, EN 50131-2-4 or EN 50131-2-2 Grade 3, and numerous others.



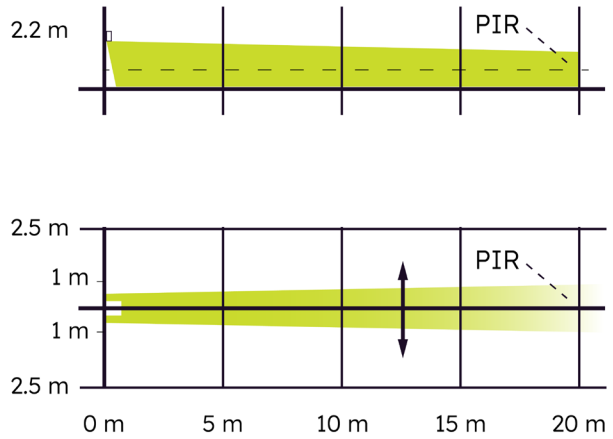
- **Anonymity in Design**  
Our detectors remain indistinguishable by their housing, so potential intruders assume the highest Grade 3 security standards.
- **Error-Free Installation**  
MAGIC detectors are ready to use with acre Intrusion alarm panels, omitting the time-consuming and error-prone resistor configuration. We also give you options to adapt them for use with other intrusion panels.
- **Cutting-Edge Energy Concepts and Electronic Components**  
Ensures minimal current consumption and enables use of cost-effective power supply units, such as batteries, to be used in the intrusion panels.
- **Fast, Easy Set-Up**  
Auto Walk Test is an innovative feature that expedites and confirms detector installation that eliminates multiple openings of detector or adjustments to DIP switch settings.

## PDM-I12 & PDM-I12T

### Volumetric mirror (standard)

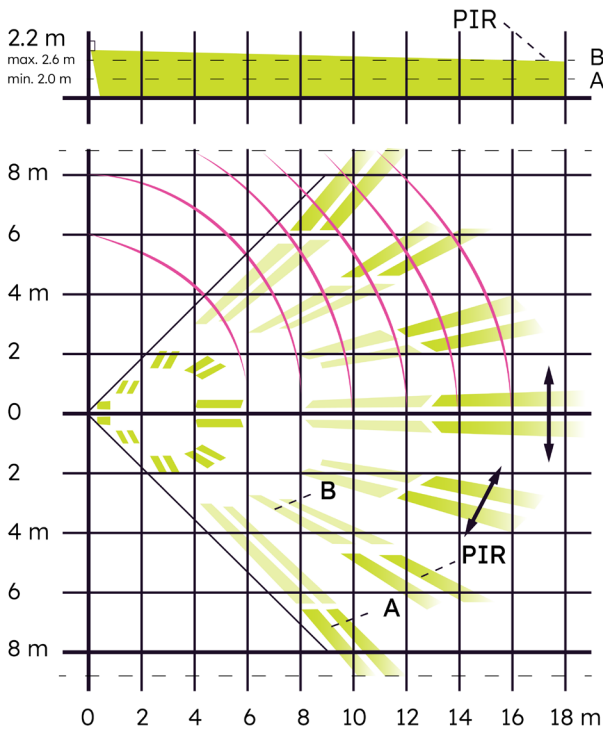


### PO-C20 curtain mirror (option)

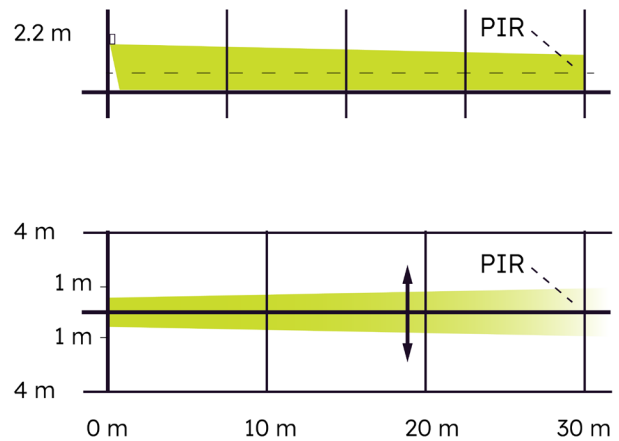


## PDM-I18 & PDM-I18T

### Volumetric mirror (standard)



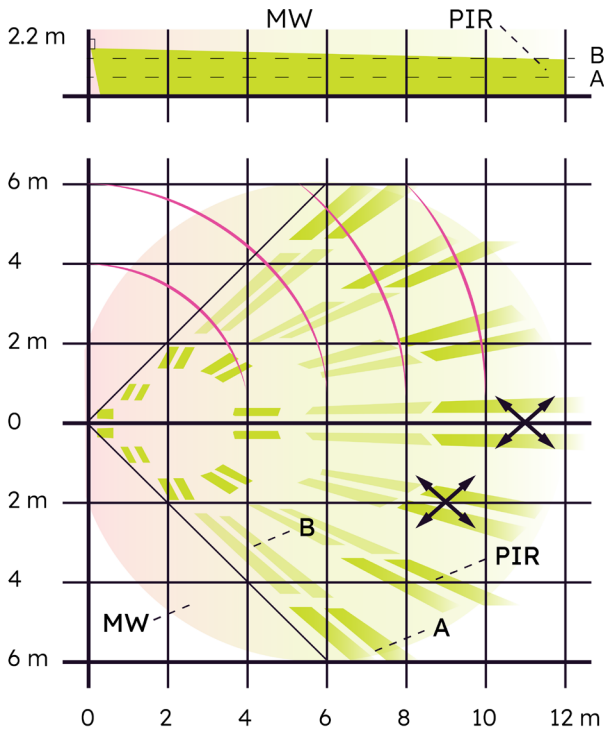
### PO-C30 curtain mirror (option)



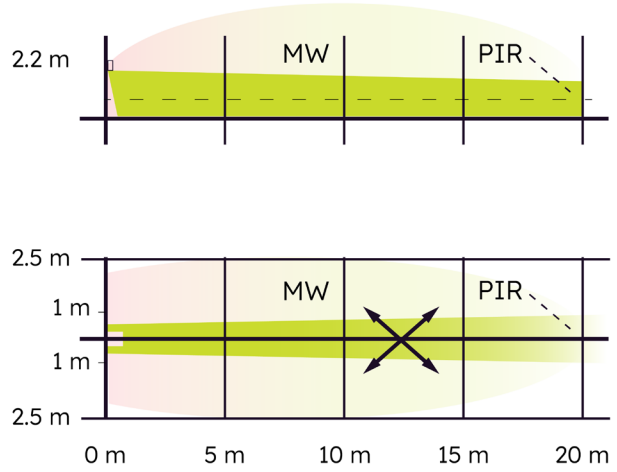
	PDM-I12	PDM-I12T	PDM-I18	PDM-I18T
Range	12m		18m	
Optical System	MAGIC mirror			
Pet Immunity	Yes (optional)		No	
Anti-Masking	No	Yes	No	Yes
Detection Characteristic	Volumetric			
<b>Power Consumption</b>				
• Idle State	2.5mA (rms), 2.8mA (max peak)	3.9mA (rms), 4.6mA (max peak)	2.5mA (rms), 2.8mA (max peak)	3.9mA (rms), 4.6mA (max peak)
• LED On	3.4mA (rms), 4.7mA (max peak)	5.9mA (rms), 6.6mA (max peak)	3.4mA (rms), 4.7mA (max peak)	5.9mA (rms), 6.6mA (max peak)
Walk Speeds	0.2-3.0 m/s	0.1-4.0 m/s	0.2-3.0 m/s	0.1-4.0 m/s
Algorithm	VISATEC			
Operating Temperature	-10°C ~ 55°C			
Housing Protection Category	IP41 / IK02			
Dimensions (HxWxD)	128 x 57 x 32 mm		147 x 64 x 35 mm	
Colour	White (RAL 9003): all types Black (RAL 9005): PDM-I12-B & PDM-I18-B			



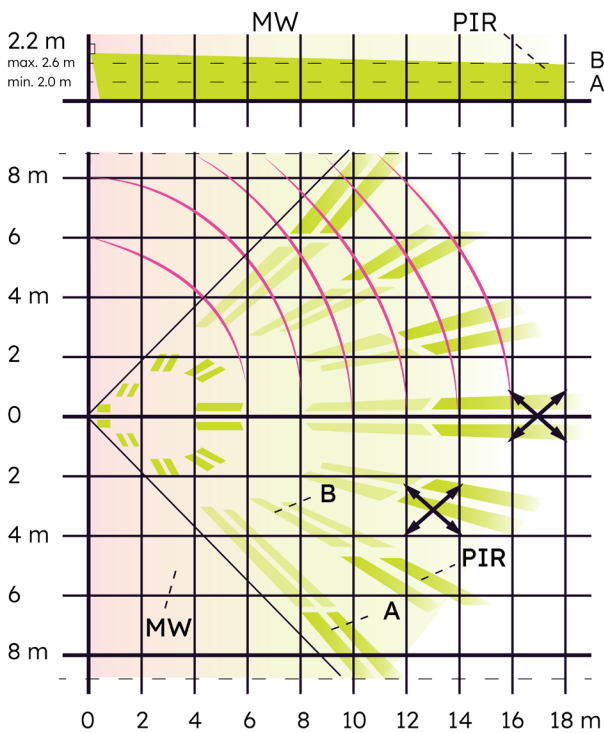
Volumetric mirror (standard)



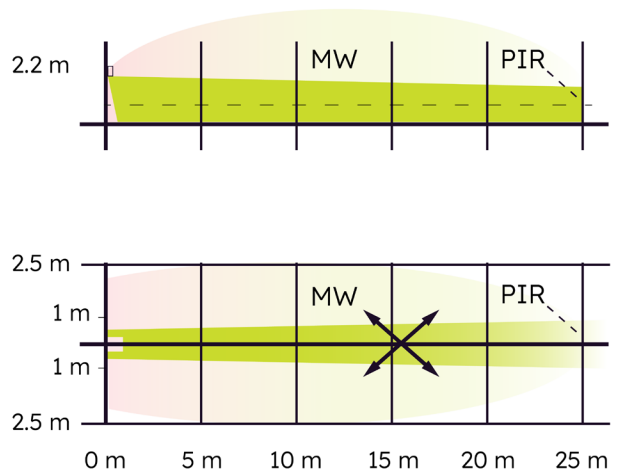
PO-C20 curtain mirror (option)



Volumetric mirror (standard)



PO-C30 curtain mirror (option)



	PDM-IXx12	PDM-IXx12T	PDM-IXx18	PDM-IXx18T
Range	12m		18m	
Optical System	MAGIC mirror			
Pet Immunity	Yes (optional)		No	
Anti-Masking	No	Yes	No	Yes
Detection Characteristic	Volumetric			
Microwave Frequencies	PDM-IXA series: 10.525GHz PDM-IXD series: 9.35GHz PDM-IXE series: 10.587GHz			
<b>Power Consumption</b>				
• Idle State	4.8mA (rms), 7.1mA (max peak)	6.3mA (rms), 8.5mA (max peak)	4.8mA (rms), 7.1mA (max peak)	6.3mA (rms), 8.5mA (max peak)
• LED On	6.7mA (rms), 9.0mA (max peak)	8.3mA (rms), 10.5mA (max peak)	6.7mA (rms), 9.0mA (max peak)	8.3mA (rms), 10.5mA (max peak)
Walk Speeds	0.2-3.0 m/s	0.1-4.0 m/s	0.2-3.0 m/s	0.1-4.0 m/s
Algorithm	MATCHTEC			
Operating Temperature	-10°C ~ 55°C			
Housing Protection Category	IP41 / IK02			
Dimensions (HxWxD)	128 x 57 x 32 mm		147 x 64 x 35 mm	
Colour	White (RAL 9003): all types Black (RAL 9005): all types of the PDM-IXA Series			



## WHITE HOUSINGS

TYPE	ARTICLE NUMBER	DESCRIPTION
PDM-I12	V54530-F114-A100	PDM-I12 PIR Detector
PDM-I12T	V54530-F105-A100	PDM-I12T PIR Detector with Anti-Mask
PDM-I18	V54530-F106-A100	PDM-I18 PIR Detector
PDM-I18T	V54530-F107-A100	PDM-I18T PIR Detector with Anti-Mask
PDM-IXA12	V54531-F113-A100	DUAL Detector 10.525GHz
PDM-IXD12	V54531-F124-A100	DUAL Detector 9.35GHz
PDM-IXE12	V54531-F114-A100	DUAL Detector 10.587GHz
PDM-IXA12T	V54531-F116-A100	DUAL Detector 10.525GHz with Anti-Mask
PDM-IXD12T	V54531-F115-A100	DUAL Detector 9.35GHz with Anti-Mask
PDM-IXE12T	V54531-F117-A100	DUAL Detector 10.587GHz with Anti-Mask
PDM-IXA18	V54531-F119-A100	DUAL Detector 10.525GHz
PDM-IXD18	V54531-F118-A100	DUAL Detector 9.35GHz
PDM-IXE18	V54531-F120-A100	DUAL Detector 10.587GHz
PDM-IXA18T	V54531-F122-A100	DUAL Detector 10.525GHz with Anti-Mask
PDM-IXD18T	V54531-F121-A100	DUAL Detector 9.35GHz with Anti-Mask
PDM-IXE18T	V54531-F123-A100	DUAL Detector 10.587GHz with Anti-Mask





## BLACK HOUSINGS

TYPE	ARTICLE NUMBER	DESCRIPTION
PDM-I12-B	V54530-F114-A1-N	PDM-I12 PIR Detector, Black
PDM-I18-B	V54530-F106-A1-N	PDM-I18 PIR Detector, Black
PDM-IXA12-B	V54531-F113-A1-N	PDM-IXA12 DUAL Detector 10.525GHz, Black
PDM-IXA12T-B	V54531-F116-A1-N	PDM-IXA12T DUAL Detector with Anti-Mask, 10.525GHz, Black
PDM-IXA18-B	V54531-F119-A1-N	PDM-IXA18 DUAL Detector 10.525GHz, Black
PDM-IXA18T-B	V54531-F122-A1-N	PDM-IXA18T DUAL Detector with Anti-Mask, 10.525GHz, Black

## ACCESSORIES

TYPE	ARTICLE NUMBER	DESCRIPTION
PO-C20	V54539-F122-A100	PO-C20 Curtain Mirror for PDM-I12 (4 pcs)
PO-C30	V54539-F123-A100	PO-C30 Curtain Mirror for PDM-I18 (4 pcs)
PZ-MBG2	V54539-F124-A100	PZ-MBG2 Mounting Bracket G2 for PDM
PO-CL	V54539-F126-A100	PO-CL Pet Clip for PDM-I12 (10 pcs)
PO-FM	V54530-H101-A100	PO-FM Flush Mount Housing Base for PDM-I12

