PDM-IXx12 and PDM-IXx12T

MAGIC DUAL MOTION DETECTOR





Vanderbilt's MAGIC PIR and Dual motion detectors are an exciting new advance in security that provide the most reliable, convenient and cost effective solution for industry leading catch performance and false alarm immunity. The detectors feature a modern, slim design and share the same low-profile housing so intruders cannot tell which type of detector they are faced with. MAGIC PIR and Dual detectors are offered in either 12m or 18m range and are optionally available with integrated anti-masking technology.

The PDM-IXx12 and PDM-IXx12T dual motion detectors offer reliable detection of intruders and high false alarm immunity. Their performance is based on an improved version of Vanderbilt's Matchtec algorithm, which combines passive infrared (PIR) and microwave (MW) channels to make extraordinarily accurate decisions on motion within their detection zone.

Intelligent processing routines analyse the relative strength of the IR and MW signals received from a moving object in order to make sound decisions. It is even possible to use multiple detectors in close proximity to each other, since the algorithm reduces interference between the MW modules. This increases flexibility in selecting the installation site.

Flexible installations can be carried out quickly and error-free due to features like Auto Walktest and the new End-of-Line concept (EoL).

Key Features include:

- Unmatched detection performance based on patented MAGIC mirror technology
- High immunity against false alarms
- 12m volumetric optics with undercrawl protection 20m gapless curtain (option)
- Unique End-of-line concept eliminates time-consuming resistor wiring
- Flexible, fast and error-free installation with sensitivity adjustment and pet immunity (option)
- Compliance with latest approval standards such as VdS, VSÖ, INCERT, NF, IMQ, SBSC, etc.
- Modern and elegant design
- Low power consumption

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Features & Benefits

■ Reliable detection

Thanks to the patented MAGIC mirror technology, intruders are detected effectively and reliably. The new double-mirror principle provides homogeneous coverage and sensitivity to all areas within the detection field. The proven and enhanced Matchtec algorithm supports the innovative mirror optic.

High security level

The integrated anti-mask function reliably detects any potential covering of the detector. In addition to this, the sophisticated mirror design ensures full under-crawl protection. Therefore, MAGIC DUAL detector PDM-IXx12T complies with the highest security standards, such as VdS Class C, EN 50131-2-4 Grade 3 and many more.

■ High hurdles for intruders

A detector cannot be identified by its housing. Potential intruders – when confronted with MAGIC motion detectors – must assume the highest security level (e.g. EN 50131-2-4 Grade 3) irrespective of the actual detector type.

■ Error-free installation

Due to pre-fitted End-of-Line (EoL) resistors, the detectors are ready for use with Vanderbilt's alarm panels (SPC and Sintony). Thus, the time-consuming and error-prone resistor configuration can be omitted. PDM-IXx12/T can also be adapted to other intrusion panels by simply replacing the pre-fitted resistors with numerous optionally available plugin EoL boards.

Low current consumption

State of the art energy concepts and electronic components provide low current consumption. Not only energy costs are decreased across the years of utilisation but also more cost efficient uninterrupted power supply units (like batteries) can be used in the intrusion panels.

Fast & easy set-up

The new Auto Walktest feature accelerates the installation of the detector. Verifying the installation and operation of the detector by means of a Walktest no longer requires repeated openings of the detector nor adapting DIP switch settings.

Recommended Accessories

Mounting bracket

The PZ-MBG2 mounting bracket provides convenient cable guiding within the bracket and can be used for all MAGIC Mirror models for both wall and ceiling mounting.

■ Pet-Clip

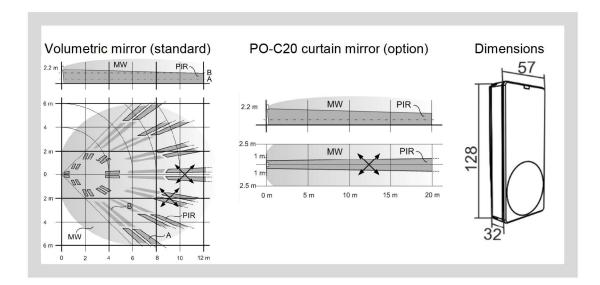
With the help of PO-CL pet-clip the detector ignores the motion caused by animals (up to 20kg) and thus reduces the likelihood of false alarms



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Technical Data

metric / 12m
IC mirror
(optional)
25GHz
GHz
B7GHz
~ 16V _{DC}
SS
n at 8.0V _{DC} ± 0.5V _{DC}
A (rms), 7.1mA (max peak)
A (rms), 9.0mA (max peak)
A (rms), 8.5mA (max peak)
A (rms), 10.5mA (max peak)
≤ 1.5V _{DC} / High ≥ 3.5V _{DC} , R _{Pull-up}
rnal) = 470kΩ
n collector, R=35Ω, I _{max} =120mA
$I_{\rm s} \sim 3.0^{\rm m}/_{\rm s}$
$I_{\rm s} \sim 4.0^{\rm m}/_{\rm s}$
CHTEC
Ω ±5%, 250mW
Ω ±5%, 250mW
Ω ±5%, 250mW
C ~ 55°C
C ~ 60°C
%rh, non-condensing
1
/ IK02
9003
Class B, EN 50131-2-4 Grade 2
Class C, EN 50131-2-4 Grade 3

