DDI78-EXF4

Microwave outdoor motion sensor in explosion-proof housing, 10.525Ghz, MOQ = 10pcs

Product overview

The DDI78-EXF4 model of stereo Doppler was developed to protect Hazardous location due to the presence of flammable gasses or vapors, combustible dusts or easily ignitable fibers of flyings. The DDI78-EXF4 electronic assembly is configured to be easily inserted into special explosion-proof enclosure. The unit is suitable for application in hazardous locations under the following classifications. Zone: 1 & 1 and 21-22.

Application

This unit is suitable for installation at petroleum, chemical and petrochemical plants, storage areas and other processing facilities where hazardous substance are handled or stored.

Classification

- According to CENELEC
- Conforming to ATEX Directive 94/9 EC and standards EN50014-18
- EC0081 Ex II 2 G for gas EEx d IIC T6
- EC0081 Ex II 2 D-T = +85° for dust
- According to IEC: - DIPA 21 Ta = +85°C

Features

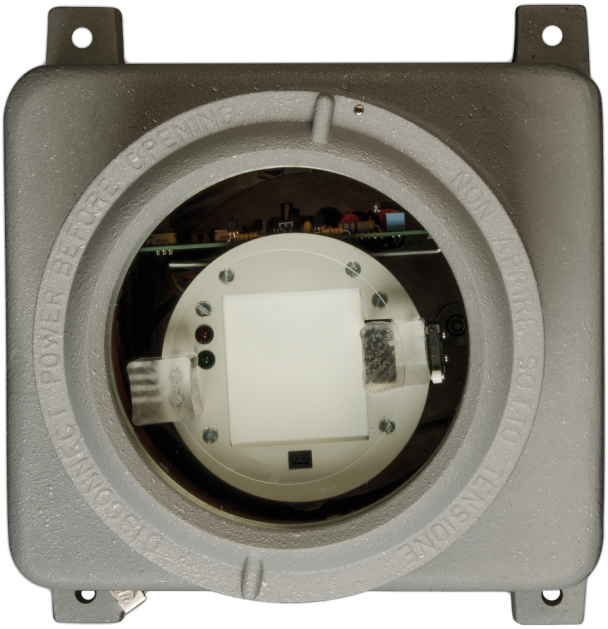
Stereo Doppler Microwave Detector: Two receiving channels with the ability to eliminate vibration and periodically moving objects as sources of the alarms.

Digital Range Control: Ten-position digital switch adjust the overall size of the sensor's detection area.

Digital Sensitivity Control: Ten-position digital switch adjust the amount of movement required to initiate an alarm condition.

Enhanced Bird Control: Two-position switch adjust the sensor's immunity to birds and small animals.

Walk test Sounder: Optional audible tester to assist in the walk-test and initial sensor set-up. The sounder greatly simplifies the installation as it enables walk testing and adjustment by a single installer.



Details

- Stereo doppler microwave detector
- Stereo doppler supervision
- Digital range control
- Digital sensitivity control
- Enhanced Bird immunity control
- Walktest sounder
- Tamper proof
- Solid state relay
- Compliant with ATEX standards
- Cable gland included

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Technical specifications

General

Technology	Microwave
Application type	Wall mount
Anti masking	No
Pet immune	No
Camera	No

Detection

Max. detection range	30 m
Detection range	30 x 13 m
Microwave frequency (nom.)	10.525 GHz
Max. microwave output (at 1m)	120 µW/cm2 at the face of the unit
Undercrawl protection	No
Microwave frequency	Spain

Wired/wireless

Wired-wireless	Wired

Electrical

Power supply value	8.5 to 20 VDC
Current consumption	150 mA @ 12 VDC (LEDs off)

Physical

Physical dimensions	255 x 334 x 290 mm (W x H x D)
Net weight	12 kg
Colour	Grey
Access holes	1/2" cable gland suitable for non-armored cable from 2mm to 9mm diameter
Minimum order quantity (MOQ)	10 pcs

Environmental

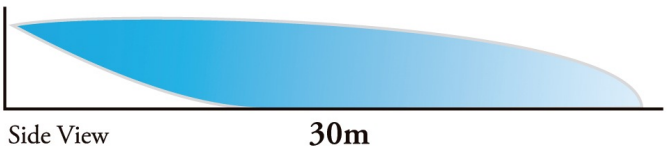
Operating temperature	-34 to +70°C
Relative humidity	0 to 100% noncondensing
Environment	Outdoor
IP rating	IP66 / IK10

Inputs / outputs

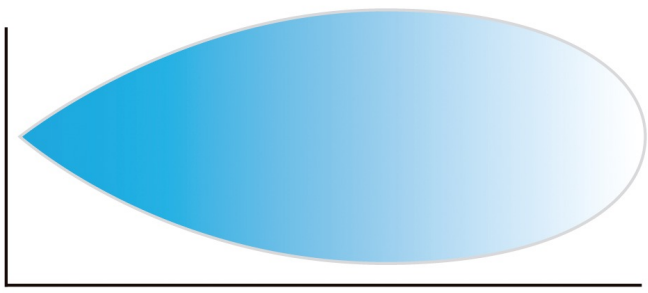
Relay contact rating	0.1 A, 50 V

Cabling

Access holes	1/2" cable gland suitable for non-armored cable from 5mm to 13mm diameter
Connections	In accordance to EN/IEC 60079-14



Side View 30m



Top View 30m x 13m

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Last updated on 24 August 2026 - 15:34