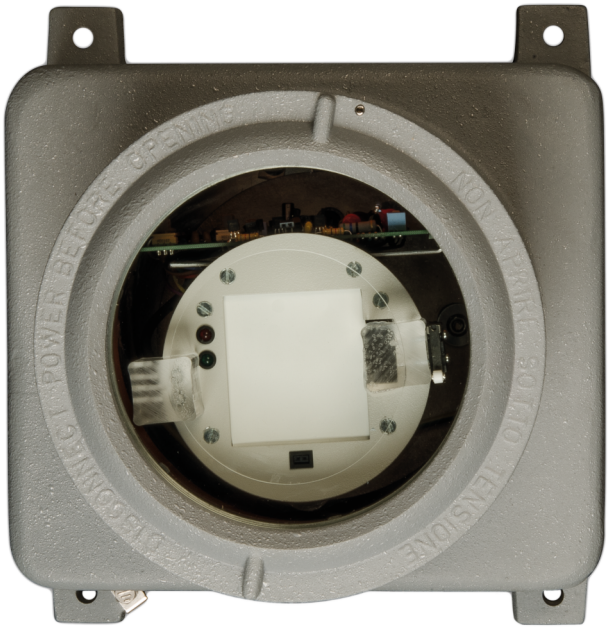
DDI78-EXF1

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

Product overview

The DDI78-EXF1 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-EXF1 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 and 2 for flammable gasses and Zone 21 and 22 for combustible dusts: oil rigs, petrochemical sites, storage zones for dangerous materials.



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.)	10.587 GHz
Max. microwave output (at 1m)	120 µW/cm2 at the face of the unit
Undercrawl protection	No
Microwave frequency	Belgium, Denmark, France, Italy, Greece, Ireland, Luxembourg, Netherlands, Sweden, UK

Wired / wireless

Wired / wireless	Wired

Inputs / outputs

Relay contact rating	0.1 A, 50 V

Electrical

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

Physical

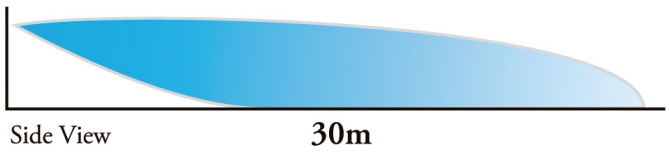
Physical dimensions	255 x 334 x 290 mm (W x H x D)
Net weight	12 kg
Colour	Grey
Minimum order quantity (MOQ)	10 pcs

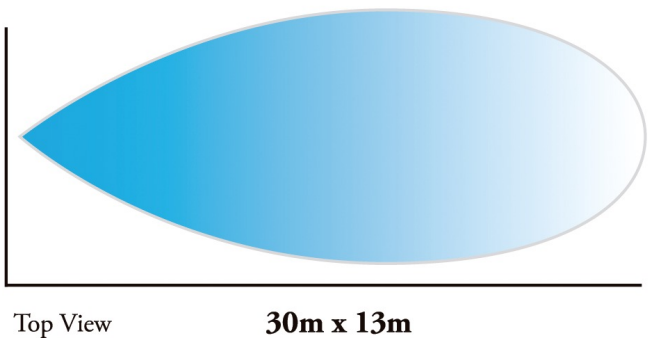
Environmental

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

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





As a company of innovation, Kidde Global Solutions reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 24 August 2026 - 15:34