# 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 & 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

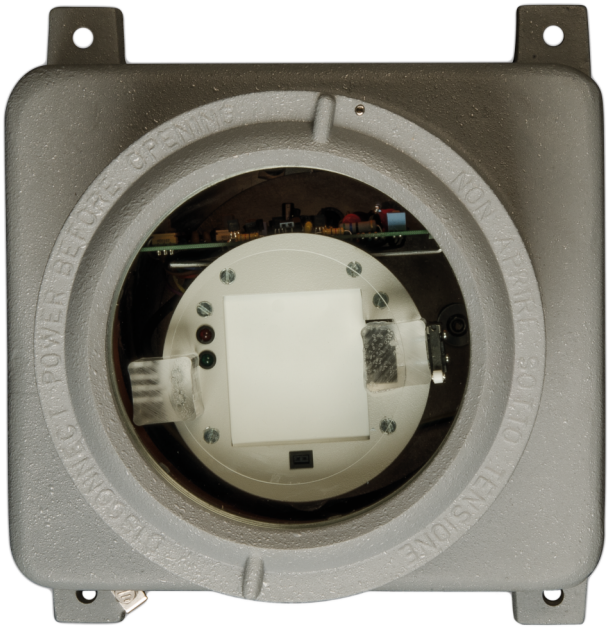
Stereo Doppler Microwave Detector: Two receiving channels with the ability to eliminate vibration and periodically moving objects as sources of the alarms.

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 | Mikrowelle |
| Application type | Wandmontage |
| 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 | Verdrahtet |

### 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 | Grau |
| | 1/2" cable gland suitable for non-armored cable from 2mm to 9mm diameter |

### Environmental

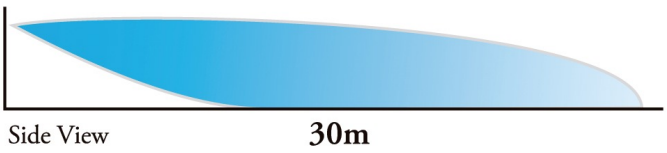
| | |
|---|---|
| Operating temperature | -34 to +70°C |
| Relative humidity | 0 to 100% noncondensing |
| Environment | Draussen |
| IP rating | IP66 / IK10 |

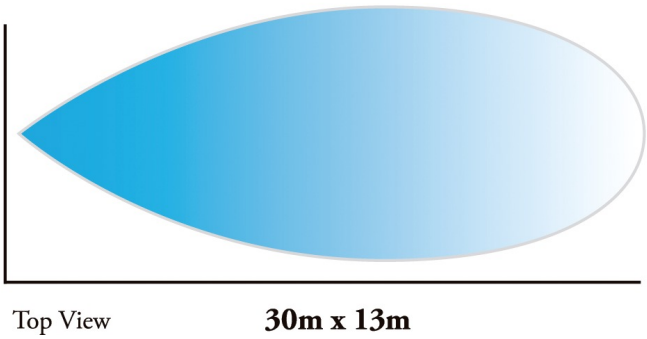
### Inputs / outputs

| | |
|---|---|
| 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 |

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