



DDI78-EXF1

ATEX Certified Microwave Motion Sensor

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.

Applications

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.

Classifications

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

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.



Standard Features

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

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Specifications

Range	30 m x 13 m
Input voltage	8.5 - 20 VDC
Current consumption	150 mA @ 12 VDC (LEDs off)
RF power density	120 uW/cm 2 max. at the face of the unit
Operating temperature	-34 °C to +54 °C
Microwave frequency	10.587 GHz
	Netherlands, Belgium, France, UK, Denmark, Sweden, Ireland, Greece, Luxembourg
Weight	11.8 kg
Operating humidity	up to 100% relative humidity
IP/IK	IP66 / IK10
Relay contact rating	0.1 A, 50 V
Dimensions (W x H x D)	260 x 214 x 215 mm
Electrical access	1/2" cable gland suitable for non-armored cable from 2mm to 9mm diameter

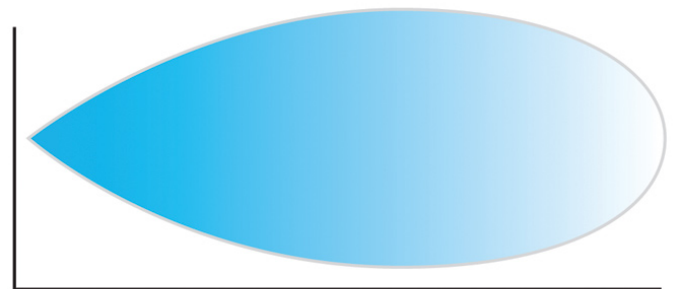
Ordering Information

Part No.	Description
DDI78-EXF1	ATEX Certified Microwave Motion Sensor
DDI78-TESTER	Walk Test Sounder



Side View

30m



Top View

30m x 13m

