

MVS20-Ex

Fog Detector

Up to 8 km



Accurate visibility measurements

The MSM visibility sensor, model MVS20-Ex, is designed for general meteorological applications in explosive atmospheres where accurate and reliable visibility measurements are required.

FEATURES

- Classification:
GROUP II: Equipment on surface (no mining).
ZONE 1: Category 2.
ATMOSPHERE: GAS.
- Monitors visibility and obstruction to vision caused by dust, fog, rain, drizzle, snow and hail.
- Selectable measurement range up to 8 km.
- Compact forward scatter design.
- Flexibility to connect to a wide range of data collection/processing units.
- Easy installation.
- Optical sensor hood heating for use in extreme environments.
- Comprehensive self-test and maintenance data.
- Not affected by local lights.



It is manufactured with high quality and resistant materials to achieve a long life in the harshest marine conditions.

The explosion area Zone 1 rated housing and marine grade sheathed cables ensure IP66 performance in all weather conditions for monitoring changes in visibility due to rain, snow, fog, smoke and dust.

With a measurement range of up to 8 km, the sensor is suitable for use in the petrochemical production sites, refining facilities and transportation terminals.

Designed according to IALA Recommendation G-1162.

II 2GD Ex d IIB T5/T6.



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! Specifications subject to change without previous notice.

Power requirements

Sensor power:	12 or 24 Vdc, 10 VA Nominal.
Power consumption:	8 W approx.
Heating power:	230 Vac, 500 VA.
Specifications range:	15m to 8 km.
Accuracy:	+/-10%.
Scatter angle:	42°.

Materials and environment

Temperature range:	-20° C to +60° C.
Material hardware:	316 Stainless Steel.
Dimensions of sensor (L x W x H):	829 x 635 x 1145 mm.
Weight:	40 kg.
Watertightness degree:	IP 66 (NEMA-4X).
Humidity:	From 0 to 100%.

Outputs Reports

Analogue outputs:	0-10 VDC - 0-5 VDC - 4-20 mA - 4-20 mA Isolated.
Serial outputs:	RS-232, RS-422 or RS-485.
Switching relays:	Providing flexible configurations.
Control Output optional:	Control and diagnostic relay.

Standards and Certifications

GAS and dust: II 2GD EEx d IIB T5/ T6.

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Zone 1: Category 2.

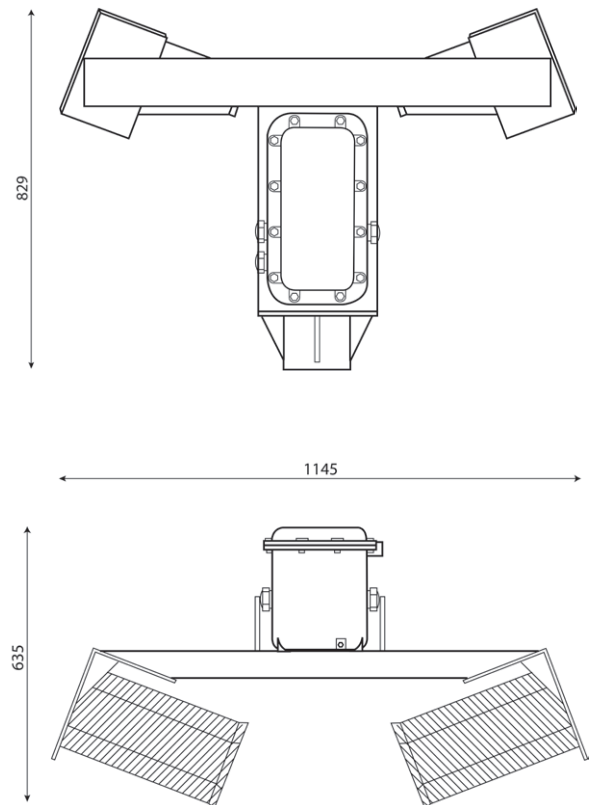
General requirements: EN 60079-0 Standard.

Equipment protection by Flameproof Enclosure: "d", EN 60079-1 Standard.

Temperature Class: T5/T6. 100°C / 95°C.

Protection against Gas: (G) and Dust (D).

ATEX Certificate Number: CESI 01 ATEX 036 and CESI 01 ATEX 027.



Options

Available with support.