



GMSC245D-FM

FIFTH GENERATION SPARK DETECTOR FM APPROVED Certified

Complies with **ATEX Directive 2014/34/EU**

Category 3D/3G

Die-cast aluminium enclosure painted RAL 3000

Dimensions: DIN A

Field of view 90° - Response time 40 ms

Air speed: max. 40 m/s

Working temperature: -30°C - +65°C

Power: 24Vdc

Absorption: 20 mA [rest]

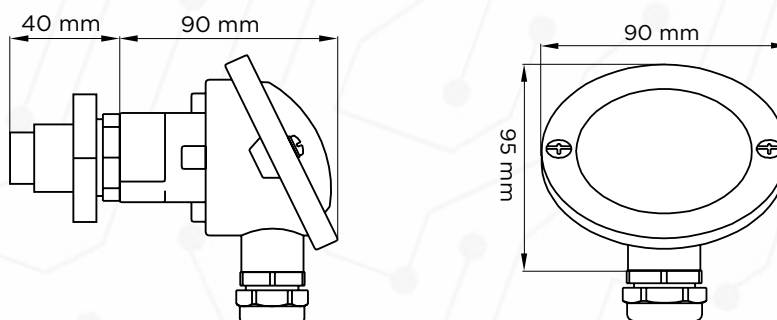
40 mA [alarm]

110 mA [alarm + test]

Protection: IP65



DIMENSIONS:



ACCESSORIES:

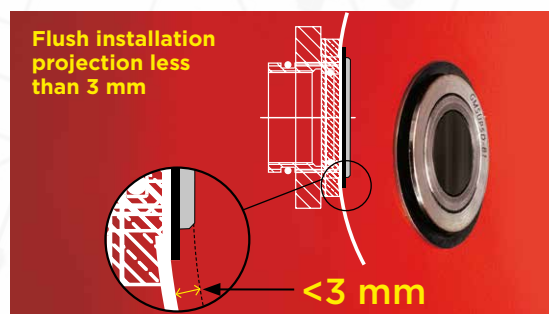
GMSUP5D-B2



GMSUP5D-OPT

Non-invasive
suitable for pipes a diameter
greater than 150 mm and a
thickness less than 1.9 mm
Including inspection window
component GMSUP5D-B2

INSTALLATION WITH SYSTEM GMSUP5D-OPT

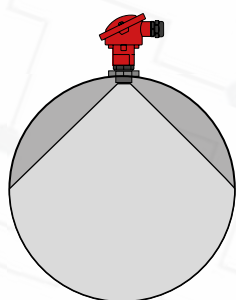




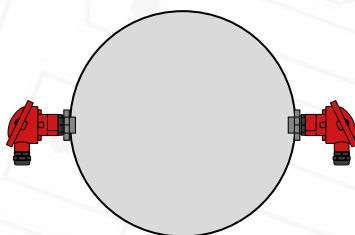
The detector must be installed in a completely dark environment.

Power supply:	24Vdc \pm 10%
Nominal current:	20mA rest 40mA alarm 110mA Alarm + TEST
Operating temperature:	-30 - +65°C (-22°F to +149°F)
Storage temperature:	-55 - +65°C (-67°F to +149°F)
Spectral response:	900-2900 nm (infrared)
Sensitivity S:	$(\lambda=\lambda_p, V_s=15V) 4 \times 10^4$ Min. 1×10^5 Typ. (V/W)
Detectivity D:	5×10^8 Min. 1×10^9 Typ. (cm \cdot $\sqrt{\text{Hz}}$ / W)
Rise time:	0-63 % - - 250 μs Max.
Spark temperature:	> 100°C (> 212°F)
Spark size:	> 1 mm at a distance of 50 cm/2 mm at a distance of 1 m (>0.039" at 19.685"/0.079" at 39.370")
Field of view:	90°
Response time:	40 ms
Enclosure:	Die-cast aluminium
Protection:	IP 65
Dimensions:	DIN A
Output 1:	Balanced output for GM SISTEMI control units
Output 2:	Output +24 VDC/100 mA for external relay
Air speed:	0-40m/s (0-8000 fpm)

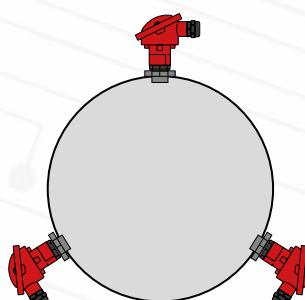
POSITIONING ON PIPELINES



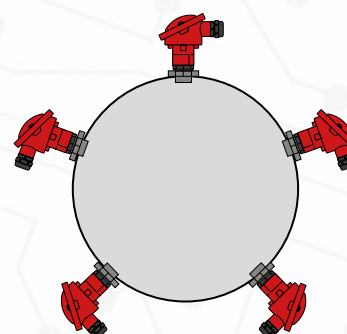
DUCT
Ø 150-500 mm
1 detector
(position high
or on the sides)



DUCT
Ø 500-1000 mm
2 detectors
(position
opposite at 180°)



DUCT
Ø 1000-3000 mm
3 detectors
(position
opposite at 120°)



DUCT
Ø > 3000 mm
5 detectors
(position
opposite at 72°)

The areas in dark gray indicate zones not directly covered by the detector, but by reflection.

The light gray area indicates the area covered by the detector.