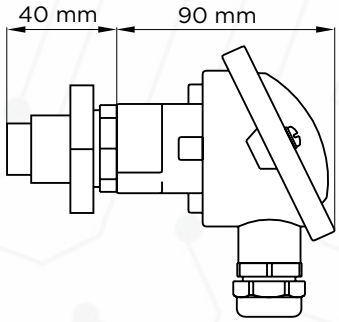
02/2023

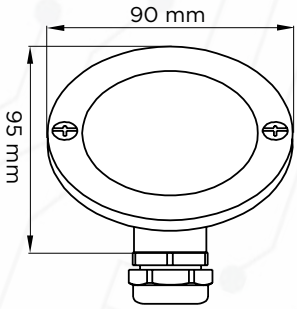
GMSC245D-FM

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
Operating temperature: –30°C – +65°C
Power: 24Vdc
Absorption: 20 mA [rest]
40 mA [alarm]
110 mA [alarm + test]
Protection: IP65

DIMENSIONS:

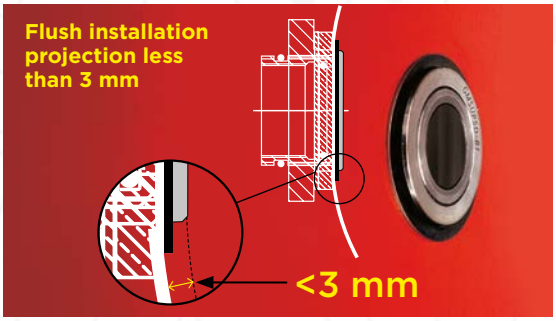




ACCESSORIES:

GMSUP5D-OPT
Non-invasive pipe fixing support 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



GM SISTEMI
ELECTRONIC DEVICES

GM SISTEMI s.r.l. Via dell'Artigianato 421 - 37056 Salizzole (VR) Italy
Tel. +39 045 6900919 - Email: gmsistemi@gmsistemi.it
www.gmsistemi.it

MADE IN ITALY

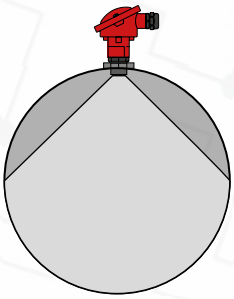
The Technical and Commercial offices are at full disposal for any other inquiry.

Fire Prevention: SPARK DETECTORS

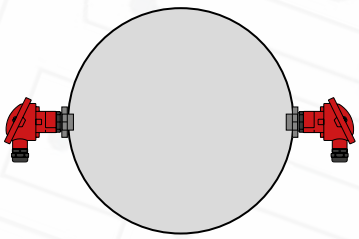
The detector must be installed in a completely dark environment.

Power supply:	24Vdc ± 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:	(λ=λp, Vs=15V) 4×10^4 Min. 1×10^5 Typ. (V/W)
Detectivity D:	5×10^8 Min. 1×10^9 Typ. (cm • √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:	Container 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)

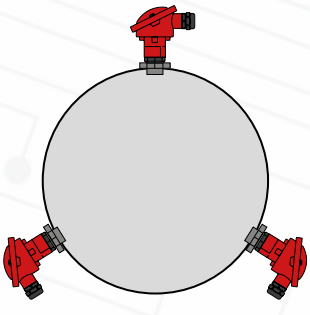
POSITIONING ON PIPELINES



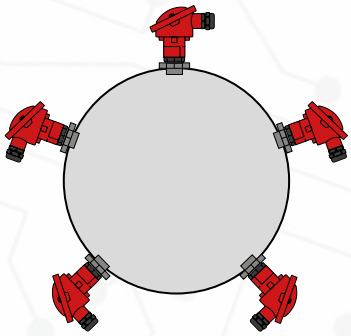
PIPE
Ø 150–500 mm
1 detector
(position high
or on the sides)



PIPE
Ø 500–1000 mm
2 detectors
(position
opposite at 180°)



PIPE
Ø 1000–3000 mm
3 detectors
(position
opposite at 120°)



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

The dark grey area indicates the area not covered by the sensor
The light grey area indicates the area covered by the sensor

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