



GMSC243TH-EX

FOURTH GENERATION SPARK DETECTOR

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

Category 3D/3G

Die-cast aluminium enclosure painted RAL 3000

Working temperature: -30°C - +65°C

Power: 24Vdc

Absorption: 20mA [rest] - 30mA [alarm]

Protection: IP65



GMSC243TH-EX-FM

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FM APPROVED Certified

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

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Die-cast aluminium enclosure painted RAL 3000

Working temperature: -30°C - +65°C

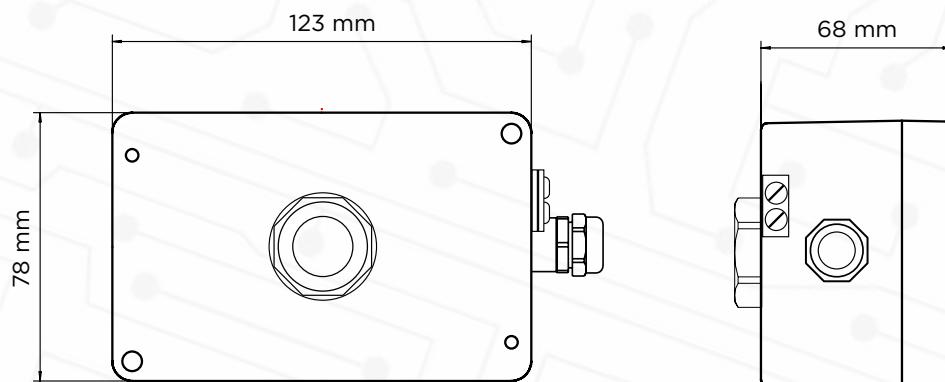
Power: 24Vdc

Absorption: 20 mA [rest] - 30mA [alarm]

Protection: IP65



DIMENSIONS:



ACCESSORIES:



GMSUP2-EX-TU
GMSUP2-EX-TU-FM

Mounting kit



GM-G10-008

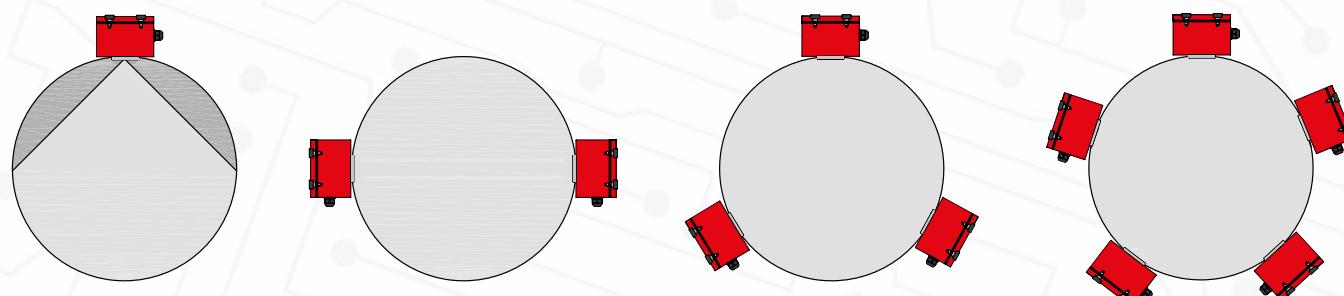
Steel ring for
cleaning the
support porthole.



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 (nm)	900-2900
Optical sensitivity S: (V/W)	($\lambda=\lambda_p$, $V_s=15V$) 4×10^4 Min. 1×10^5 Typ.
Detectivity D: (cm • $\sqrt{\text{Hz}}/\text{W}$)	5×10^8 Min. 1×10^9 Typ.
Response 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°
Alarm time	40 ms
Enclosure	Die-cast aluminium
Protection	IP 65
Dimensions	123 mm x 78 mm x 68 mm (4.84" x 3.07" x 2.68")
Output	Balanced output for GM SISTEMI control units
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 grey area indicates the area covered by the detector.