



## Spark Detector GreCon FM 3/8

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The best ignition source detection  
for high-temperature applications

### KEY BENEFITS

- ✓ Highly sensitive detection of sparks and embers in high-temperature applications
- ✓ Detection not dependent on temperature of ignition source
- ✓ Highly reliable detection of ignition sources, even at high transport speed and load
- ✓ Flush-mounted installation of detector optics for maximum life
- ✓ VdS and FM approved - Dust Ex safety options available for ATEX and IECEx

# SPARK DETECTOR GRECON FM 3/8

The FM 3/8 is a highly sensitive spark and ember detector for protection against fire and explosion in industrial processes. It uses fibre optic cables to deal with high material temperatures (up to 500 °C) used in certain industrial processes. The detector reacts to the infrared range of light radiated by an ignition source. It is designed to be used in an environment free from ambient light.

The detector can be connected to every GreCon control console using a standard three core cable. A range of flexible mounting adapter options exist to suit any environment. The control console interfaces with the detector for monitoring of ignition sources within the process, the configuration of detection parameters and automated check of the detector optics' correct function. Fibre optic cables in various lengths allow the detector to be situated remotely outside the high temperature area.

## TECHNICAL DATA

Spectral sensitivity	780 nm to 1100 nm
Temperature range, environment	-40 °C to +70 °C
Ambient temperature in the material flow	up to + 650 °C at the lens
Relative atmospheric humidity	0 to 95 %, non-condensing
Transportation speed	max to 35 m/s (other speeds on demand)
Use	in non-explosive areas, in areas without daylight and artificial light
Connection	ready-to-use connecting cable, plug-in, cable length 2.5 m (3 x 0.5 mm <sup>2</sup> ) optionally 25 m (3 x 0.5 mm <sup>2</sup> )
Material of housing	aluminium die casting
Degree of protection	IP 65
Housing dimensions	84 x 84 x 31 mm
Weight	490 g (excluding connecting cable)
Available mounting adapters	Screw-in mounting adapter FM 3/8 Ex, Weld-on mounting adapter FM 3/8 Ex, Purge air adapter SPA and SPA Ex
Supply voltage range	18 V to 22 V DC
Current drawn at 20 V	10 mA ± 1 mA



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