



Spark Detector GreCon FM 1/8

The best ignition source detection
for dark conditions

KEY BENEFITS

- ✓ Highly sensitive detection of sparks and embers
- ✓ 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 1/8

The FM 1/8 is a highly sensitive spark and ember detector for protection against fire and explosion in 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.

TECHNICAL DATA

Spectral sensitivity	780 nm to 1100 nm
Viewing angle	120°
Ambient temperature	-40 °C to +70 °C
Ambient temperature in the material flow	max. +80 °C at the lens
Relative atmospheric humidity	0 to 95 %, non-condensing
Transportation speed	2 to 50 m/s (other speeds on demand)
Use	in areas without daylight and without artificial light
Connection	ready-to-use connecting cable, plug-in, cable length 2.5 m (3 x 0.5 mm ²) optionally 25 m (3 x 0.5 mm ²)
Material of housing	aluminium die casting
Protection class	IP 65
Housing dimensions	84 x 84 x 31 mm
Weight	270 g (excluding connecting cable)
Optics	hardened mineral glass
Available mounting adapters	threaded adapter FM 1/8 Ex, welding adapter FM 1/8 Ex, air purge adapter SPA and SPA Ex

