



- ◆ The infrared spark sensor is used for the detection of sparks and flames in closed systems
- ◆ The maximum of spectral sensitivity is at approx. 830 nm
- ◆ **Well suited for detecting:**
Sparks/flames with a temperature > 800°C
- ◆ **Caution! False tripping possible:**
The spark sensor is suitable for installation in parts of the system where it is dark and where no parts, where it is dark and where no extraneous light is expected. Daylight also has infrared portions, whose influence can also get a response from spark sensors.
- ◆ **Typical Examples:**
In electronic spark extinguishing units for early detection of fire or explosions. Everywhere that flammable or smoldering materials are transported mechanically or pneumatically and a risk of fire or explosion exists.

Technical data:

Infrared spark sensor IR-01.1

Operating voltage	12...30 VDC	Dimensions without ventilation	Ø: 40mm
Operating current at 24V	< 100 µA		l=76 mm
Alarm current at 24VDC	45mA	Dimensions with ventilation	Ø: 40mm
Alarm resistor	560Ω		l= 94 mm
Alarm pulse without latching	approx. 0,3 s	Terminal box dimensions	65 x 50 x 35 mm
Trigger delay	< 1ms	Weight without ventilation	180g
Spectral sensitivity	approx. 700...1000	Weight with ventilation	210g
Range (spark temperature 800°C)	IR-01.1: 500mm	Sensitivity (set with sparks with a temperature of approx. 800°C)	IR-01.1: 500mm
	IR-01.1S: 1000mm		IR-01.1S: 1000mm
Viewing angle without ventilation	approx. 110°		
Viewing angle with ventilation	approx. 35°		
Connection for ventilation	0.1...1bar	Options:	
Temperature range	-20...+70°C	potential-free relay contact, normally closed/normally open contacts, Photo-MOS-Relay for Error and Alarm	0,5 A / 30 VDC
Housing safety class	IP65		
Special features	Detectors are equipped with special glasses with outstanding oil ,water and dust repellent characteristic, in most cases an air flushing is unnecessary.		

