AR-025 SMOKE DETECTOR

Zones 2, 22

9

INSTRUMENTATION

ATEX INSTRUMENTATION	ZONES 2 (gas) & 22 (dust)

The explosion-safe AR-025 optical smoke detector reacts to visible smoke particles. If too much smoke enters its measuring chamber, an alarm is triggered. In the measuring chamber, an integrated infrared light source generates a light pulse every 8 seconds.

Smoke particles from a fire change the light signal received by the light diode.
A relay trips and the alarm center reports a fire alarm.
The 12 V optical smoke detector is mounted on the ceiling in the center of the room.
The minimum distance to the side wall should be 30cm.

By changing a jumper, you can configure the optical smoke detector as NO or as NC detector. It is therefore suitable for every wired alarm system. The smoke detector is supplied externally with 12V operating voltage and is EN54 certified.

Declaration of Conformity

ITEM REFERENCES

Designation:	Output:	Item No.:
AR-025/001	NO	9E0101
AR-025/002	NC	9E0102

TECHNICAL SPECIFICATIONS

Marking:	II 3G Ex ec mc IIC T6 Gc II 3D Ex mc tc IIIC T80ºC Dc
Certificate:	Declaration of Conformity
Standards applied:	EN 60079-0:2018, EN 60079-7:2015 / A1:2018, EN 60079-18:2015 / A1:2017 and EN 60079-31:2014
Operating temperature:	-20ºC to +50ºC
Sensor:	Photodiode
Supply voltage:	12 V DC
Rated current:	35 mA
Rated power:	0,368 W
Status indicator:	Green LED is blinking in operation, red LED lights continuously at an alarm
Switch power AC1:	1 A at 30 VDC
Output:	Switched NO or NC output with option to connect multiple detectors in series
Material:	Die cast aluminum housing (RAL 7015)
Connection:	Terminals 10 x 2,5 mm²
Ingress protection:	IP65 according to EN 60529
Dimensions:	120 x 120 x 113 mm (excluding cable glands)
Weight:	1,265 gr
Cable entries:	2xM16 non-armoured cable glands (5-9 mm)

CONTACT – (+34) 943 530 095 | inpratex@inpratex.com