

EVC-PY-IS ATEX OPTICAL SMOKE DETECTOR

Intrinsically safe design

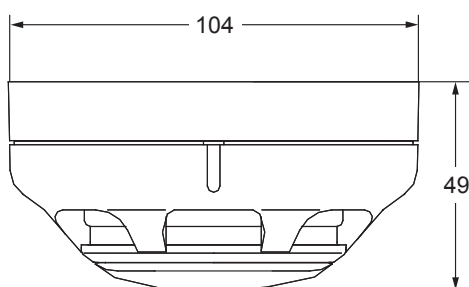


TECHNICAL DATA

Detector type:	Optical EVC-PY-IS ATEX
Supply voltage:	24VDC
Detector head:	White PC with metal net around the chamber
Base:	White PC
Ambient temperature:	-20°C to +50°C
Humidity:	Max. 99% RH
Air speed:	Max. 15 m/s
Approval:	According to EN 54-7
Fire gas alarm:	Indicated with red LED
Eex class:	Ga Ex ia IIC T4, Ta=50°C 0359 Ex II 1 G
Weight:	About 180 grams
Protection class:	Base IP22

DIMENSIONS

(mm)



Attachment: 2 pcs M4, c/c 50 or 60 or 70 mm.

ORDERING EXAMPLE

Item code	Description
ABAV-S3 230V ATEX	Control unit for ATEX smoke detectors, comes with ATEX barrier
EVC-PY-IS ATEX	ATEX smoke detector, opt, intrinsically safe, base included

ACCESSORIES

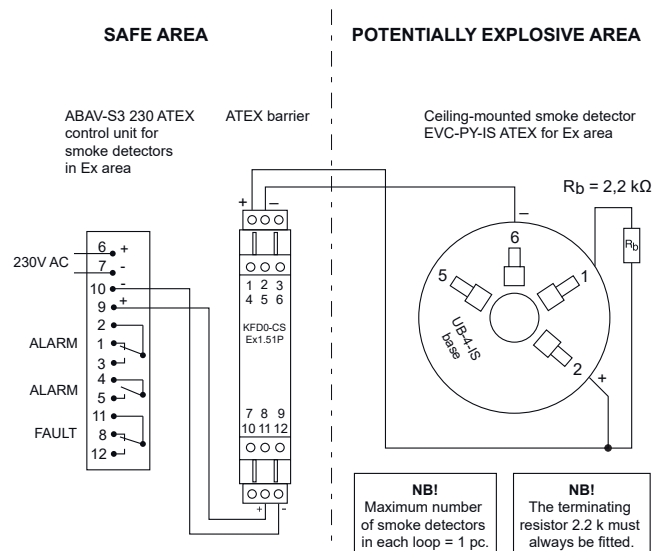
Item code	Description
EVC-PY-IS/I	ATEX smoke detector, opt, intrinsically safe, head
UB-4-IS	Base for EVC-PY-IS/I intrinsically safe

The EVC-PY-IS ATEX detector is used in areas that require Ex-protected or intrinsically safe smoke detectors.

FUNCTION

The smoke detector provides a quick and reliable warning. The detection chamber contains a light and photodiode. The light beam does not normally strike the photodiode, but once smoke enters the chamber labyrinth, the light emitting diode is reflected by the smoke causing it to strike the photodiode. The current through the photodiode changes and triggers an alarm. The condition of the alarm is indicated optically by a red light indicator on the detector, and it remains in the alarm condition until it is manually reset in the distribution cabinet or control unit. The design of the detector makes it almost completely immune to high air velocities, contamination and radio frequency interference. The detector is fitted with a bayonet mount, making it easy to fit and remove. Contamination of the smoke detector makes it more sensitive and will cause it to slowly move towards alarm mode. To avoid unnecessary alarms the detector should be cleaned at least once a year. Please refer to our operating and maintenance instructions.

CIRCUIT DIAGRAM



The alarm and fault relay contacts are displayed in de-energised/ alarm condition. Alarm relay max 8A, 250V. Fault relay max 5A, 250V.