Intrinsically Safe Conventional Optical Smoke Detector

EVC-PY-IS

Part no. F02-83300

General Description

EVC-PY-IS is an Intrinsically Safe Conventional Optical Smoke Detector compatible with Conventional systems via Galvanic Barrier.

The detector is ATEX Certified with Specification Class 1G (Gas), Temperature T4.

The device can be interfaced to Conventional Fire Alarm Panel, or Nittan EV-ZMU2 Zone Monitor, via either of the following Galvanic Barriers.

- KFD0-CS-Ex1.51P – Single Channel
- KFD0-CS-Ex2.51P – Double Channel

Approvals

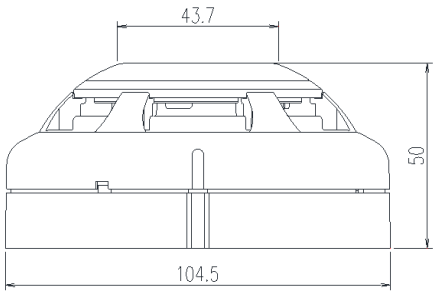
EN Test Standards	EN 54-7: 2018
ATEX Test Standards	EN 60079-0: 2018
	EN 60079-11: 2012
CPR Certificate	0786-CPR-20883
UKCA Certificate	0359-UKCA-CPR-00127
VdS EN54 Certificate	G209215
ATEX Certificate	ITS09ATEX26418X
UKEx Certificate	ITS21UKEX0066X
IECEx Certificate	IECEx ITS 12.0074X
DoP Number	20883

Compatible Bases

UB-4-IS – Intrinsically Safe Base

EV-SPB-IS – Waterproof Intrinsically Safe Base

Dimensions (mm)

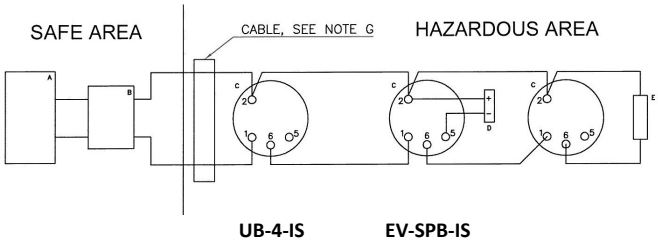


Data

System Type/Voltage	Conventional 24 Volt
Smoke Sensor Type	Optical Light Scatter
Special Classification	Intrinsically Safe Ex
ATEX Specification	II 1 G Ex ia IIC T4
Operating voltage	10 Vdc to 28 Vdc – limited by Barrier
Quiescent current	50µA at 24V
Alarm current	50mA at 24v – limited by Barrier to 0.66W
Remote LED current	2.0mA
Operating temperature	-20°C to +50°C (Limited by ATEX Certification)
Storage temperature	-25°C to +60°C
Relative humidity	RH 95%
Charging Time	1 minute.
Ingress protection	IP42
Material	ABS
Material Specification (UL94)	V-2
Dimensions	104.5x50 mm (Inc Base)
Mass	110 g (Sensor Only)

Note: Do not use for VdS Approved Fire Extinguishing systems.

All wiring must conform to the current edition of IEE Wiring regulations and BS5839 Part 1, or Local National Wiring regulations.

All loop Cable Screens shall be connected together, but must be Isolated from Ground. Cable Screens shall be connected to Earth Ground within the Control Panel ONLY

Connections