



DP672

Series 670 Intrinsically Safe Optical Smoke Detector

General

The DP672 is an intrinsically safe, optical smoke detector and forms part of the 670 series of intrinsically safe conventional detector line.

The DP672 is regarded as particularly suitable for smouldering fires and escape routes as its performance is good in black as well as in white smoke. The device is designed to reduce the incidence of false alarms through over-sensitivity to transient phenomena significantly, and are therefore recommended for use as general purpose smoke detectors for early warning of fire in most areas.

Classification

II 1G Ex ia IIC $-40^{\circ}\text{C} < \text{Ta} < +40^{\circ}\text{C}$ (T5)
 $-40^{\circ}\text{C} < \text{Ta} < +60^{\circ}\text{C}$ (T4)

BASEEFA Certificate number

ATEX—Baseefa 06 ATEX 0007X
IECEX—IECEX BAS 06.0002X



Details

- Elegant slim-line design
- EN54 and BASEEFA approved
- Installer friendly design

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Technical specifications

Electrical

Supply wiring	2 wires, polarity sensitive
Supply voltage	14-28 VDC
Minimum 'detector active' voltage	12 VDC
Minimum voltage to light alarm LED	6 VDC
Minimum holding voltage	5 VDC
Alarm reset voltage	< 1 VDC
Switch-on surge current	105 μ A @ 24 VDC
Average quiescent current	85 μ A @ 24 VDC
Alarm load	325 Ohm in series with a 1.0 V drop
Remote output LED (-) characteristic	4.7 kOhm connected to negative supply
Power-up time	< 20 s
Alarm reset time	1 s

Environmental

Operating and storage temperature*	-40°C to +70°C (no condensation or icing)
Humidity	0% to 98% RH (no condensation)
Wind speed	Unaffected
Atmospheric pressure	Insensitive
IP rating	23D

Operation

Sampling frequency	Once every 4 s
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Mechanical

Material	Moulded white polycarbonate.
Alarm Indicator	Integral indicator, 360° visibility
Dimensions (dia x h)	100 mm x 42 mm
Weight	75 g

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