

# DP672

## Series 670 Intrinsically Safe Optical Smoke Detector

### General

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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

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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

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



### Details

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

# DP672

## Series 670 Intrinsically Safe Optical Smoke Detector

### Technical specifications

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#### Operation

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Sampling frequency	Once every 4 s
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#### Electrical

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

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

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