



## Product Data Sheet

# DP672T

## Series 670 Intrinsically Safe Optical/Heat Multi-Sensor

### General

The DP672T is an intrinsically safe, optical/heat multi-sensor and forms part of the 670 series of intrinsically safe conventional detector line.

Multi-sensor smoke detectors are recognised as good detectors for general use but are additionally more sensitive to fast burning, flaming fires - including liquid fires - than optical detectors.

They can be readily used instead of optical smoke detectors but should be used as the detector of choice for areas where the fire risk is likely to include heat at an early stage in the development of the fire.



### Multi-Sensor Operation

The DP672T is a thermally enhanced smoke detector and as such will not give an alarm from heat alone. It is in essence an improvement on a standard optical detector since it goes further in its capabilities of fire detection. The sensitivity of its optical detector is influenced by a heat sensing element which makes the detector more responsive to fast-burning, flaming fires.

### Standard Features

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

### Classification

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

### BASEEFA Certificate Number

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

# DP672T

## Series 670 Intrinsically Safe Optical/Heat Multi-Sensor

### Specifications

Operation	
Sampling frequency	Once every 4 s
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 microA @ 24 VDC
Average quiescent current	85microA @ 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
Mechanical	
Material	Moulded white polycarbonate.
Alarm Indicator	Integral indicator, 360° visibility
Dimensions (dia x h)	100 mm x 42 mm
Weight	80 g
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
* Restrictions apply depending on operation class	

### Ordering Information

Part No.	Description
DP672T	Series 670 Intrinsically Safe Optical/Heat Multi-Sensor
DB670	Series 670 Intrinsically Safe TimeSaver Base
AI671	Mini disc remote indicator

