

DT972

Apollo XP95 Intrinsically Safe Heat Detector (55000-440)

General

The DT972 is an intrinsically safe addressable heat detector. It should be used together with the PT971 or PT972 protocol translator, as well as a GBX70 barrier when installed in an explosive environment.

IS Temperature Detectors

The DT972 detectors use a low air-flow resistant case for good contact between the sensing thermistor and the surrounding air. Temperature is measured by a single thermistor that gives a voltage output proportional to the external air temperature. The signal is processed and transmitted to the control equipment.

Operating Principles

The intrinsically safe heat detectors have a common profile with optical smoke detectors, but have a low airflow resistance case made of self-extinguishing, white polycarbonate. It has identical performance to standard (non IS) temperature detectors in the range.

Unique Addressing

A unique, patented addressing method provides simple, user-friendly and accurate identification of monitor location whereby a coded card, inserted in the base, is read by any monitor as it is plugged in. All the electronic components are in the detector, but the location information is held in the base. Addressing errors during maintenance and service are eliminated. Pre-coded and pre-numbered address cards are also available. These address cards simplify and speed up installation and commissioning.

The base for the IS device range is not identical to the standard range. This ensures that standard detectors cannot be accidentally fitted into an explosive area.



Details

- Passive base address
- Electronic free base
- Programmable slide-in address card
- Full IS line including optical, temperature and manual call point
- Aesthetic design
- BASEEFA certified

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Technical specifications

Electrical

Operating voltage	14 to 22 VDC
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Physical

Physical dimensions	100 x 42 mm (Ø x H)
Net weight	105 g
Colour	White
Size (H x Ø)	42 x 100 mm
Weight	105 g
Colour	White

Environmental

Operating temperature	-20 to +40°C (T5) / -20 to +60°C (T4)
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Storage temperature	-20 to +80°C
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Relative humidity	0 to 95% noncondensing
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Environment	Indoor, IS
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IP rating	IP53
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Operating temperature (no icing)	-20°C to +40°C (T5) -20°C to +60°C (T4)
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Storage temperature	-20°C to +80°C
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Relative humidity (non- condensing)	0 - 95%
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Max. wind (continuous)	Not affected
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IP Rating	IP53
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Standards & regulation

Certification	CENELEC/ATEX, EN54-5
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Operating voltage

14 - 22 VDC

Current consumption

Quiescent	300 µA
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Alarm	2 mA
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Remote LED (internally limited)	1 mA
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Alarm indication (LED)

Red

Approvals

BASEEFA	BAS02ATEX1289
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Classification	E Ex ia IIC T5
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