DT713-7

ARITECH Dx700 Series conventional high temperature heat detector

General

The 700 series conventional detector line includes a range of temperature detectors:

- The DT713-5 is a class A2 temperature detector with a fixed temperature threshold of 57°C and built in rate-or-rise functionality.
- The DT713-5R has the same specifications as the DT713-5, but in addition includes a built in potential free changeover relay
- The DT713-7 is a class B temperature detector with a fix temperature threshold of 70°C and built in rate-or-rise functionality.

Preventing false alarms with self diagnostics

700 Series detectors continually monitor their own sensitivity and operational status. Once a day they perform a full diagnostic test that includes dynamically testing the sensing chamber and internal electronics. Any abnormal statuses are reported locally on a fault LED on the detector, and signalled back to a compatible CIE.

The detector base

Every 700 series base features a continuity link between LINE IN (1) and LINE OUT (2) terminals of the conventional detector circuit. The base is supplied with the link in closed position. The link is enabled by default allowing you to check the zone wiring using only the bases. The link will automatically disconnect when a detector is inserted, allowing the panel to generate a fault message when the detector is removed.



Details

- Automatic self diagnostics: Dynamic full detector and sensitivity test
- High false alarm immunity
- 12 to 24 VDC operation
- Polarity insensitive
- Part of a full range: Optical, heat and optical/heat multi criteria detectors
- EN54 approved and CPR certified

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Technical specifications

General

Status indication	Red LED (alarm)
User interface	LED
Compatibility	Aritech conventional systems & Aritech and Excellence conventional ZMUs
Reset voltage	<2.5 V
Reset time	1 s
Alarm levels	1
Connectivity	2-wire zone & remote indicator

Electrical

Power supply type	Zone powered
Operating voltage	8.5 to 33 VDC
Current consumption	100 µA (quiescent at 24 VDC) <60 mA (in alarm at 24 VDC)

Detection

Detection principle	Heat
Sensitivity	Category B
Zone length	Cable dependent
Alarm temperature (typical)	+70°C ± 1.5°C
Rate-of-rise	8°C/min above 40°C

Output

Output quantity	1
Remote alarm output	Indicator

Physical

Physical dimensions	100 x 50 mm (Ø x H)
Net weight	85 g
Colour	Cloud white (RAL 9001)
Mounting type	Ceiling mount
Material (body)	Plastic

Environmental

Vandal proof	No
Operating temperature	-10 to 65°C
Storage temperature	-10 to +70°C
Application temperature (maximum)	+65°C
Application temperature (typical)	+40°C
Relative humidity	0 to 95% noncondensing
Environment	Indoor
IP rating	IP43

Regulatory

Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CPR
Standards	EN54-5

Compatible products

Category	Reference	Description
Detection device	DB702	ARITECH Dx700 Series standard point detector base
Notification device	AI672	Dx700 / Dx2000 series conventional remote indicator
Notification device	AI673	Conventional remote indicator with buzzer

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