

DP721RTA

Czujka dualna opt/ termiczna serii 700, auto-reset, wyjście NC/NO do systemów alarmowych, wymienna komora optyczna, IP43

Preventing false alarms with self diagnostics

All Aritech 700 series smoke detectors continuously monitor their sensitivity and operational status. Background drift is daily compensated to maintain the original calibrated sensitivity within the required limits.

Once a day the detector performs a full diagnostic test that includes dynamically testing the sensing chamber and internal electronics. If a detector drifts out of sensitivity range or fails the internal diagnostics test, this is reported back to the panel and indicated on the detector with a yellow fault LED.

Maintenance friendly sensitivity level test mode

The 700 Series photoelectric detectors include a sensitivity test mode that may be activated by simply holding a magnet near the detector's test point. This initiates a self-diagnostic routine and provides visual indication if service is required. This test mode allows field sensitivity testing without the requirement for external meters or test gas.

Field cleaning and service

The photoelectric sensing chamber unclips from the detector for easy field cleaning and service. During regular maintenance the detector cover can be removed, the optical chamber removed and replaced by a low cost, new chamber. On power up the detector auto-calibrates and returns to normal operating mode without any further intervention.

The right detector for the right job

For a truly fast and broad-spectrum detection the DP721RTA offers both optical and heat sensors. The interaction of both the smoke and heat algorithms ensure a quick response to both flaming and smouldering fires.

All bases are provided with an integral locking tab for extra security if required. Bases are equipped with a shorting bar between IN and OUT that opens when the head is installed and that may be manually restored when removing the head. This simplifies cable continuity testing.

Note:

The DP721RTA must not be used in applications requiring compliance with commercial or residential fire standards such as EN54-5/EN54-7/EN54-29/CEA4021/EN14604. Always ensure compliance with local codes and standards.



Details

- Automatic self diagnostics with dynamic full detector and sensitivity test
- Manual self diagnostic routine with visual sensitivity indication
- Field sensitivity testing without external meters
- Field exchangeable and disposable optical chamber
- High false alarm immunity
- Floating background with drift compensation
- Separate fire and fault LEDs
- 12-24VDC operation
- Polarity insensitive
- COM/NO/NC contacts for easy supervision on any system
- Automatic reset when event clears

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Technical specifications

Ogólne

Sygnalizacja stanu	White LED (red in alarm), Yellow LED (test & fault)
User interface	LEDs
Zgodność	Aritech conventional systems & Aritech conventional ZMUs
Napięcie kasowania	<2.5 V max
Reset czasu	1 s
Sposób podłączenia	2-wire zone & relay

Elektryczne

Napięcie znamionowe	8.5 to 33 VDC
Pobór prądu	100 µA (quiescent) <60 mA (in alarm)

Wykrywanie

Zasada detekcji	Optical light scatter and heat
Czułość	10%/m (+1.6%, -3.3%)
Długość linii	Cable dependent
Rate-of-rise	8°C/min above 40°C

Wyjście

Ilość wyjść	1
Typ i obciążalność wyjścia	Relay - NO/C/NC (2 A at 30 VDC, 1 A at 120 VAC)
Programowalny	No
Wyniesione wyjście alarmowe	NA

Fizyczne

Wymiary	100 x 50 mm (Ø x H)
Masa netto	112 g
Kolor	Śnieżnobiały (RAL 9001)
Typ montażu	Montaż sufitowy
Tworzywo	Tworzywo sztuczne

Środowiskowe

Wandaloodporna	Nie
Temperatura pracy	-10 to +60°C
Temperatura magazynowania	-10 to +70°C
Temperatura otoczenia	+25°C
Wilgotność względna	0 to 95% noncondensing
Środowisko	Pomieszczeniowy
Szczelność IP	IP43

Zgodność

Zgodność	CE, REACH, RoHS 2, WEEE
Certyfikacja	CE

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