



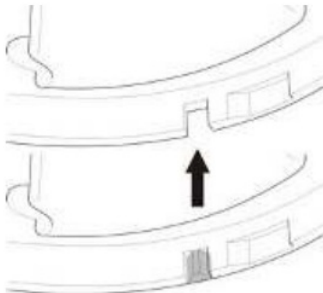
ARITECH 700 Series Conventional Point Detectors Installation Guide

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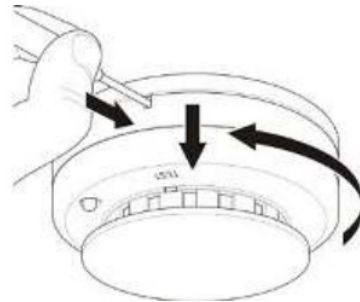


700 Series Conventional Point Detectors Installation Sheet

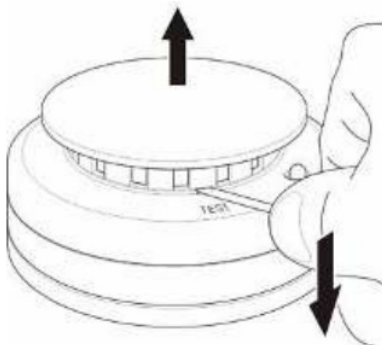
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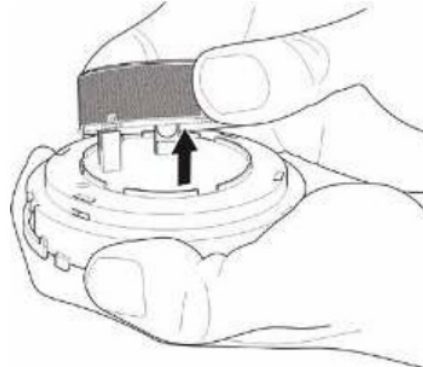
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Description

The Dx700 series of conventional point fire detectors are used with DB702 and DB702U Mounting Bases.

Table 1: Dx700 Series Conventional Point Detectors

| Model | Detector type |
|-----------|---|
| DP721I | Optical Smoke Detector with Remote Indicator Output |
| DP721R | Optical Smoke Detector with Relay Output |
| DP721RT | Optical/Heat Multi Detector with Relay Output |
| DP721RTA* | Multi Detector, complete with Relay Auto Reset |
| DP721T | Optical/Heat Multi Detector with Remote Indicator Output |
| DT713-5 | Heat Detector, 57° C fixed and rate of rise heat detector |
| DT713-5R | Heat Detector, 57° C fixed and rate of rise heat detector with relay output |
| DT713-7 | Heat Detector, 70°C fixed and rate of rise heat detector |

WARNING: The DP721RTA* must not be used in fire detection systems requiring detectors to comply with EN 54-7/CEA4021 standards.

Installation

Caution: For general guidelines on system planning, design, installation, commissioning, use and maintenance, refer to CEN/TS 54-14 and to local regulations.

To install a detector:

1. Insert the detector head into the mounting base and rotate it clockwise until it clicks into place.

The detector may be locked into the mounting base if required.

To do this remove the locking tab on the detector before installation (Figure 1).

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.

Always test detectors after installation.

Note: Please note that all models in the Dx700 series are polarity insensitive. Polarity must be observed when

using remote indicators.

Maintenance

To remove a locked detector:

1. Insert a small screwdriver into the locking tab slot (Figure 2).
2. Press in and rotate the detector anticlockwise.

All detectors ship with a plastic dust cover. Smoke detectors will not work with the dust cover in place. It must be removed when installation is completed, before testing.

To replace the optical chamber:

1. Remove the detector head from the mounting base.
2. Remove the detector cover by inserting a screwdriver and lifting as shown in Figure 3.
3. Remove the used optical chamber from the detector (Figure 4) and insert the replacement optical chamber.
4. Replace the detector cover by placing onto detector head and pushing down until it clicks into place. Install the detector back into the mounting base.
5. Test the detector according to local regulations and verify that it signals an alarm at the control panel.

To clean the optical chamber, follow the above instructions for removal and use compressed air to clear the dust.

Caution: After replacing or cleaning the optical chamber, check for sensitivity with the sensitivity level test described below.

Testing

For in-depth sensitivity testing, see sensitivity level test mode in Table 2 below. The test is initiated by holding a magnet to the integral reed switch, marked by the word TEST on the detector housing. The test results are indicated by the number of times the LED flashes, as shown. Reset the detector once testing is completed.

Table 2: Sensitivity level test mode

| Obscuration [1] | Flashes | Indication |
|--------------------------|------------------|--|
| | 1 | Unserviceable hardware fault is detected. Reset detector and re-run test. If indication remains the same, replace detector. |
| > 9 8.4 | 2 3 | The detector is not sensitive enough Clean per instructions. Check to make sure the optical block cover is snapped down completely. |
| 7.2 6.1 4.9 3.8 | 4 5 6 7 | The detector is within the sensitivity limits. None. |
| 2.6 < 2 | 8 9 | The detector is too sensitive. Clean per instructions |

[1] Approximate based on (% / m) photo detector

Specifications

| | |
|--|---|
| Operating voltage | 8.5 to 33 VDC |
| Current Standby Alarm | 100µA 15 to 60 mA |
| Relay contact | 2 A at 30 VDC 1 A at 120 VAC |
| IP rating | IP43 |
| Compatible mounting bases | DB702, DB702U |
| Relative humidity | 0 to 95% noncondensing |
| Temperature Operating Storage | -10 to 60°C -10 to 70°C |
| Colour | White |
| Dimensions (Ø x H) | 100 x 50 mm |
| Weight DP721I, DP721RTA DP721R, DP721RT DP721T DT713-5 DT713-5R DT713-7 | 112 g 115 g 109 g 84 g 87 g 85 g |

Regulatory information

This section includes both regulatory information and a summary on the declared performance according to the Construction Products Regulation 305/2011. For detailed information refer to the product Declaration of Performance.

| | |
|--|---|
| Certification | CE |
| Certification body | 1134 |
| Declaration of Performance number DP721I, DP721R DT713-5, DT713-5R, DT713-7 DP721RT, DP721T | 360-4227-0399 360-4227-0599 360-4227-0599 360-4227-0799 |
| Year of first CE marking | 5 |
| Product identification | DP721I, DP721RTA, DP721R, DP721RT, DP721T, DT713-5, DT713-5R, DT713-7 |
| Intended use | See DoP point 3 |
| Essential characteristics | See DoP point 9 |
| Manufacturer | Gulf Security Technology Co.,Ltd 80, Changjiang East Road, QETDZ, Qinhuangdao, Hebei Province, China 066004 EU authorized manufacturing representative: UTC Fire & Security B.V., Kelvinstraat 7, 6003 DH Weert, The Netherlands |

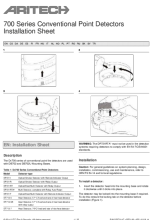
Contact information

For contact information see our Web site:

www.utcssecurityproducts.eu.

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Documents / Resources

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|  | <p>ARITECH 700 Series Conventional Point Detectors [pdf] Installation Guide DP721I, DP721R, DP721RT, DP721RTA, DP721T, DT713-5, DT713-5R, DT713-7, 700 Series, 700 Series Conventional Point Detectors, Conventional Point Detectors, Point Detectors, Detectors</p> |
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