

700 Series

Intelligent Self Diagnostic Fire Detectors

- Automatic Self Diagnostics
 - Dynamic full detector test
 - 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 trouble LED
- 12 - 24 V dc operation
- Polarity insensitive
- Full range : optical, heat and optical/heat multi criteria sensor
- EN 54 approved



→ Preventing false alarms

Self Diagnostics

The smoke detector continually monitors its own sensitivity and operational status. Once a day, it performs a full diagnostic test which includes dynamically testing the sensing chamber and internal electronics. If a detector drifts out of its sensitivity range or fails internal diagnostics, the yellow trouble LED will indicate.

Background drift is daily compensated to maintain the originally calibrated sensitivity. The thresholds are not compensated beyond EN 54 limits for sensitivity. A failure of the sensing chamber is reported back per zone to the panel.

→ Maintenance friendly

Sensitivity level test mode

The photoelectric detector includes a sensitivity test mode that is activated by holding a magnet near the integral reed switch. This initiates the self diagnostic routine and provides visual indication if service is required. This test mode allows field sensitivity testing without the requirement for external meters.

Field cleaning and service

The photoelectric sensing chamber unsnaps from the detector for easy field cleaning and service. Once a year (or more in dusty environments), one should open the detector cover, snap off and throw away the optical chamber. Vacuum and/or filtered compressed air can be used to remove dirt from the optical base. Then snap a new optical chamber back in place and re-check the sensitivity.

→ The right detector for the right job

For a truly fast and broad spectrum detection, there is the multicriteria optical/heat sensor. The interaction of both the smoke and heat algorithms ensure a quick response to both flaming and smouldering fires.

The universal bases are available in 2 sizes to suit your application. All bases are provided with an integral locking tab for extra security reasons if required. They are also equipped with a shorting bar between IN and OUT which opens when the head is installed and can be manually restored when removing the head.

The 700 Series comprises a range of sensors : optical, heat and multi-criteria sensor. The detectors are also available with on-board C/O relay.

700 Series

→ Technical data

	DP 700	DT 700
Operating voltage	8.5 - 33 V dc FWR	
Current consumption	100 µA; Max. 70 µA average	
Quiescent at 24 V dc	100 µA; Max. 70 µA average	
In alarm at 24 V dc	60 mA	
Alarm indication	White LED (red alarm)	Red LED
Fault indication	Yellow LED	
Remote alarm output	30 mA	
RY contact rating	2 A @ 30 V dc; 1 A @ 120 V ac	
Humidity	0 - 95%; Non-condensing	
IP rating	IP 43	
Heat specification		
Max.	-	57° C ± 1.5° C
R.O.R.	-	8° C/min and > 40° C
Sensitivity	10%/m (+1.6%, -3.3%)	-
Reset voltage	2,5 V max	
Reset time	1 sec	
Dimensions	10 cm Ø, H = 5 cm	

→ How to order

DP 721	Photoelectric smoke detector head
DP 721I	Photoelectric smoke detector head with remote alarm LED output
DP 721T	Photoelectric smoke detector and heat detector head with remote alarm LED output
DP 721R	Photoelectric smoke detector head with C/O relay output
DP 721RT	Photoelectric smoke detector and heat detector with relay output
DP 721RTA	Photoelectric smoke detector and heat detector with relay output, autoreset
DT 713-5	57° C fixed and rate-of-rise heat detector
DT 713-5R	57° C fixed and R.O.R. heat detector, with relay output
DT 713-7	70° C fixed and R.O.R. heat detector
DB 701	10 cm diameter base - 3 terminals
DB 701 U	15 cm diameter base - 3 terminals
DB 702	10 cm diameter base - 6 terminals
DB 702 U	15 cm diameter base - 6 terminals
DB 703	Transition base 600 series to 700 series
211	Set of 10 field exchangeable optical blocks

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