

DP721I

Photoelectric smoke detector with remote alarm LED output

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

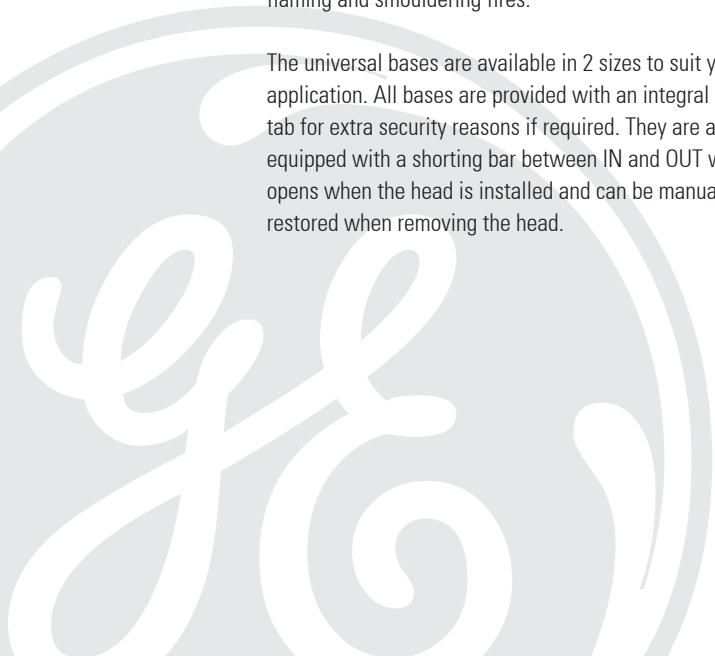
For a truly fast and broad spectrum detection, there is the multicriteria optical/heat sensor. The interaction of both the smoke and heat algorithms ensure a quick response to both flaming and smoldering fires.

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.



Standard Features

- **EN 54 approved**
- **VDS certified**



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Specifications

Operating voltage	8.5 - 33 V dc FWR
Current consumption	
Quiescent at 24 V dc	100 A; Max. 70 A average
In alarm at 24 V dc	60 mA
Alarm indication	White LED (red alarm)
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
Sensitivity	10%/m (+1.6%, -3.3%)
Reset voltage	2,5 V max
Reset time	1 sec
Dimensions	10 cm Ø, H = 5 cm

Ordering Information

Part No.	Description
DP721I	Photoelectric smoke detector with remote alarm LED output
DP721R	Photoelectric smoke detector with C/O relay output
DB702	10 cm diameter base - 6 terminals



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