RF280THS Series Wireless Photoelectric Smoke Detectors

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BOSCH
Invented for life

- 57°C (135°F) heat sensor
- Internal 85 dB sounder
- Superior dust immunity
- Exclusive Chamber Check® self diagnostics
- Factory programmed transmitter ID for quick and simple transmitter enrollment

The RF280THS Series Wireless Photoelectric Smoke Detectors include the following models:

Model	RF Transmission
RF280THS	304.00 MHz
RF280ETHS	433.42 MHz

Each model is an open-area wireless smoke detector designed for fire protective signaling and household fire warning systems. The light emitting diode (LED) indicates alarm, readiness, and testing. The patented chamber design provides superior immunity to false alarms caused by dust. The detectors have an integral 57°C (135°F) heat sensor designed for use with household fire warning systems.

Functions

Chamber Check Self Diagnostics
The Chamber Check Self Diagnostics automatic sensitivity test feature indicates when the detector is outside the factory calibrated specifications. The installer can easily determine which detectors require attention, reducing service costs. The detector alerts users when the detector is dirty, reducing false alarms. A unique chamber check signal is provided.

Patented Chamber Design
The detector chamber walls and lenses optimize internal light scattering and dust hiding capabilities. This provides for industry leading dust immunity without sacrificing detection. You can easily remove the detection chamber for cleaning.

Sounder
The sounder activates on detector alarm. It is 85 dB at 3 m (10 ft). The detector and sounder automatically reset when the chamber clears.

Supervision Features
An internal base tamper is included. The base tamper sends a supervisory signal every 65 minutes. The signal includes the detector sensitivity, battery, and tamper status.

Test Features
The LED automatically flashes to indicate a calibration trouble condition. A steady LED indicates an alarm condition during testing. Verify sensitivity with a push button test.

Certifications and approvals

Region	Certification	
Europe	CE	RF280ETHS: 1999/5/EC, EN60950 1992 (2nd edition) +A1 (1993) +A2 (1993) +A3 (1995) +A4 (1997), EN55022-1 Class B (1999), EN55024 (1998), EN50130-4 (1995), +A1 (1998) +A2 (2003), EN61000-4-2 (1995), EN61000-4-3 (1997), EN61000-4-4 (1995), EN61000-4-5 (1995), EN61000-4-6 (1997), EN61000-4-8 (1994), EN61000-4-11 (1994), EN301489-3 (2000), ETS300683 (1997), EN300220-1 (1997-99), EN300220-3 (1997-99)
	CE	RF280ETHS: 1999/5/EC, EN60950 (1993) +A1/A2/A3/A4, ETS 300683 (1997), EN 300220-1 (1997)
	CE	RF280ETHS: 73/23/EEC, EN60950 (1993) +A1/A2/A3/A4
USA	UL	RF280THS: UROX: Smoke - Automatic Fire Detectors (UL268 and A)
	CSFM	7272-1615:0214 SMOKE DETECTOR-SYSTEM TYPE-PHOTOELECTRIC [-THS]
	FCC	RF280THS: ESV-0407-4
Canada	IC	RF280THS: 12491021131

Installation/configuration notes

Compatibility Information

Detectors	Receivers	Control Panels
RF280THS	RF3212	Solution Ultima 844, 862, and 880, CC488
	RF3222	DS7400XiV4
	RF3224	DS7240, DS7220, D6412, and D4412
RF280ETHS	RF3212E	Solution Ultima 844, 862, and 880, CC488
	RF3213E	VR-8
	RF3222E	DS7400XiV4 (firmware version 4.03 or higher)
	RF3227E	DS7240 and DS7220, CC7240-A
	RF3228E	Marise
	RF3249E	DA (Abacus)

Battery Recommendations

The following battery types are recommended for correct operation of your detector: Duracell® DL123A, Eveready® CR123A, or Panasonic®® CR123A.

Technical specifications

Mechanical Properties

Dimensions:	5 cm x 12.7 cm (2 in. x 5.1 in.)
Material:	High impact, fire retardant ABS plastic enclosure and separate twist-lock mounting plate

Environmental Considerations

Integral Heat Sensor:	+57°C (+135°F)
Radio Frequency Interference (RFI) Immunity	No alarm or setup on critical frequencies in the range of 26 MHz to 950 MHz at signal strengths less than 50 V/m.
Relative Humidity:	0% to 95% (non-condensing)
Temperature (operating):	0°C to +38°C (+32°F to +100°F)

Outputs

Alarm:	85 dB at 3 m (10 ft)

Power Requirements

Batteries:	Two 3 VDC lithium batteries
Battery Life:	5 or more years under normal operating conditions with recommended battery types

Transmission Characteristics

Frequency Band	
RF280THS:	304.00 MHz
RF280ETHS:	433.42 MHz

Trademarks

Chamber Check® is a registered trademark of Bosch Security Systems in the United States.

Duracell® is a registered trademark of the Gillette Company, USA, in the United States and/or other countries.

Eveready® is a registered trademark of Eveready Battery Company, Inc.

Panasonic® is a registered trademark of Matsushita Electric Industrial Co., Ltd.

Ordering information

RF280THS Wireless Smoke Detector (304.00 MHz)
An open-area wireless smoke detector designed for fire protective signaling and household fire warning systems; operates at 304.00 MHz
Order number **RF280THS**

RF280ETHS Wireless Smoke Detector (433.42 MHz)
An open-area wireless smoke detector designed for fire protective signaling and household fire warning systems; operates at 433.42 MHz
Order number **RF280ETHS**

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