

Two-Wire Conventional Smoke Detectors & Bases

TS7 Series



Overview

The TS7 Series features photoelectric smoke detectors with an easy to install and maintain head and base design. The photoelectric smoke detector heads are self diagnostic and have field replaceable optical chambers. They feature automatic drift compensation which adjusts the sensitivity if the detector becomes dirty over time, greatly reducing the chance of a nuisance alarm.

Additional diagnostic information is activated by applying a magnet near the detector's integral reed switch. This initiates a self-diagnostic routine and provides visual indication of sensitivity level, or if service is required.

The TS7 smoke detector heads meet NFPA 72 field sensitivity testing requirements without the need for external meters. Orders are shipped with the appropriate six-inch base to support the TS7 Series smoke detector heads.

Standard Features

- Two-wire head and terminal base models (packaged together)
- Self-diagnostic capability continually monitors operation
- Built-in drift compensation
- Field replaceable optical chamber
- Low-profile design blends in with the environment
- Available with integral heat detectors
- Meets NFPA 72 field sensitivity testing without the need for external meters
- Extensive 2-wire compatibility listings
- 12/24VDC



Detection & alarm since 1872

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Specifications

Electrical

Voltage	8.5 -33VDC, non-polarity sensitive
Max ripple (peak to peak)	10% (Vp - p)
Typical standby current (24V)	70µA
Typical alarm current 24V	2-wire up to 60mA max, if not limited by control panel
Photoelectric Sensitivity	2.85%, +0.37, -1.00%
Operating temperature	32°F -120°F (0°C - 49°C)
Operating humidity range	0 -95% Non-condensing
RFI immunity	20V/m min; 0-1000MHz
Remote LED output current	5mA min, 8.5mA max
Drift compensation adjustment	1.0%/ft max
Heat Sensor Ratings	Fixed 135F°/Rate-of-rise 15° (721UT)
Maximum wind velocity	300ft/min

Environmental

Field wiring size	12-18 AWG
Remote test input	(721UT) 100ohm max
Reset voltage	2.5V max
Reset time	1 second max
UL two-wire compatibility identifier	S10A (711U, 711UT, 721UT), S00 (all bases)

Physical

Color	White head and base
Detector head dimensions	4" D x 1.75" H (10cm x 4.44cm)
Total height (head and base):	1.98" H (5cm)

Regulation

Listing	UL 268, FM, CSFM, MEA approved
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Ordering Information

Model	Description (wall mount)	Compatibility Listing
TS7-2	Conventional photoelectric smoke detector, 2-wire, 6" 3-terminal base, 12/24VDC. Three-terminal base 701U.	S10A
TS7-2T	Conventional photoelectric smoke detector, 2-wire, fixed/rate-of-rise heat, remote alarm/trouble LED., 12/24VDC. Six-terminal base 702U.	S10A

Accessories

211-10PKG	Replacement optical chambers (package of 10)
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