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 replacable 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 either two- or four- wire TS7 Series smoke detector heads.

Standard Features

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

Two- and Four-Wire Conventional Smoke Detectors & Bases

TS7 Series

GE
Security

U.S.
T 888-GESECURITY
F 503-691-7566

Canada
T 519 376 2430
F 519 376 7258

Asia
T 852 2907 8108
F 852 2142 5063

Latin America
T 305 593 4301
F 305 593 4300

www.gesecurity.com/fireworx

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
Typical alarm current 24V	4-wire 50mA max, 50mA min
Relay contacts	2A @ 30VDC, 1A @ 120VAC
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, 741UT)
Maximum wind velocity	300ft/min
Environmental	
Field wiring size	12-24AWG
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), S11A (731U), S00 (all bases)
Physical	
Color	White head and base
Detector head dimensions	4" D x 1.75" H (10cm x 4.44cm)
Detector packaging	10 detectors per carton
Total height (head and base):	1.98" H (5cm)
Regulation	
Listing	UL 268, FM, CSFM, MEA approved

Ordering Information

Model	Description (wall mount)	Compatibility Listing
TS7-2	Conventional photoelectric smoke detector, 2-wire, 6" 3-terminal base, 12/24VDC	S10A
TS7-2T	Conventional photoelectric smoke detector, 2-wire, fixed/rate-of-rise heat, remote alarm/trouble LED, 6" 6-terminal base, 12/24VDC	S10A
TS7-2R	Conventional photoelectric smoke detector, 2-wire, form C aux. relay, 6" 6-terminal base, 12/24VDC	S11A
TS7-4	Conventional photoelectric smoke detector, 4-wire, 6" 6-terminal base, 12/24VDC	See note 1 below
TS7-4T	Conventional photoelectric smoke detector, 4-wire, fixed/rate-of-rise heat, 6" 6-terminal base, 12/24VDC	
Accessories		
204-12/24V	12/24V, end of line power supervision relay for 4-wire applications, UL listed	
211-10PKG	Replacement optical block cover for all photoelecric models (package of 10)	
706U2A	Remote visible alarm indication, with test only, for use with TS7-2R	
706U3A	Remote visible alarm indication, with test and reset, for use with TS7-2R	
SM-200	Smoke! in a Can® (aerosol spray) for functional testing of smoke detectors	

Note 1: Go to the www.gesecurity.com resource library for a complete compatibility index.

Head	ships with terminal base:
TS7-2 TS7-2T	701U 3*
TS7-2R TS7-4 TS7-4T	702U 6
*Note: 702 Series bases come with 6 terminals and 701 Series bases come with 3 terminals.	

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