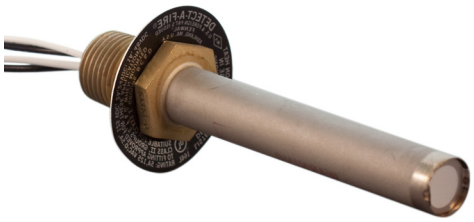
T301 Heat Detector

Fixed Temperature Rate Compensated

Normally Closed Contact Type



Shown with optional junction box

The SST Model T301 detectors are highly reliable thermal detection devices which have been a standard of the fire protection industry for over 30 years. They may be used as an alarm device, to sense overheat or fire and alert personnel via the Safety Systems NOVA-5000 Fire Detection and Control System, or they may be used to sense a fire and actuate the release of extinguishing agent. These units are designed with rate compensation. This provides a unique advantage over both fixed temperature and rate-of-rise types of detectors, allowing these detectors to accurately sense the surrounding air temperature regardless of the fire growth rate.

Fixed temperature detectors must be completely heated to alarm temperature before responding, and therefore, a disastrous time lag may occure with a fast rate fire. Rate-of-rise devices, on the other hand, are triggered by the rate of increase in ambient temperature and are subject to false alarms caused by harmless transient thermal gradients, such as the rush of warm air from a process oven. By contrast, the SST Model T301 Fixed Temperature Rate Compensated detectors have the inherent ability to operate whenever the surrounding air temperature reaches the selected protection level, even if this rise is so fast that the body of the detector is not completely heated. At the same time, the SST detectors will not respond to sudden temperature changes below the selected rating of the detector.

FEATURES & BENEFITS

- Responds accurately and positively to fire threats...virtually eliminates costly false alarms
- Repeatable - resets itself, nothing to replace, can be tested
- Rugged - withstands shock and vibration
- Versatile - available in wide range of temperature settings
- Explosion proof - Underwriters Laboratory listed and Factory Mutual approved for hazardous locations
- Durable - long lasting stainless steel construction, hermetically sealed
- Accurate - factory set to respond at rated temperature, regardless of the rate of temperature rise; not sensitive to momentary changes in temperature

Class I Groups B,C,D
Class II Groups E,F,G

APPLICATIONS

- Commercial Kitchens
- Industrial manufacturing facilities
- Oil and Gas
- Petrochemical
- Turbine Power Generators
- Any locations requiring a fail-safe alarm circuit

SST Safety Systems Technology
23282 MILL CREEK DRIVE | STE. 215 | LAGUNA HILLS | CA 92653 | USA
TEL: 1-949-583-1857 | FAX: 1-949-340-6643
EMAIL: SALES@SAFETYSYS.COM | WWW.SAFETYSYS.COM

GENERAL SPECIFICATIONS

Detection Method:	Fixed Temperature Rate Compensated Thermal Heat Detector *Provides faster and more reliable fire detection than other types, with no tendency to false alarms.*
Rated Alarm Temperature:	Factory preset
Contact Type:	Normally Closed, self restoring *Contact opens when air temperature is greater than the rated alarm temperature, and recloses when temperature falls below the rated temperature.*
Contact Rating:	2 amps @ 24 VDC, 1 amp @ 48VDC, 0.5 amp @125 VDC, 5 amps @ 125 VAC *When used with the VulcanGuard Control System, switched current is limited to 24 mA by 1000 ohm "in-line" resistor in series with contact*
Material:	Stainless Steel sensing shell *Temperature setting is stamped on hex mounting flange*
Hazardous Locations:	Class I Groups B, C, D and Class II Groups E, F, G
Size/Weight:	0.63 inch diameter, 3.66 inches long, 5.4 ounces *Extends 1.25 inches into junction box*

ORDERING INFORMATION

Part No.	DESCRIPTION
301-140	Model T301 Normally Closed Contact Heat Detector, 140°F, 60°C
301-160	Model T301 Normally Closed Contact Heat Detector, 160°F, 71°C
301-190	Model T301 Normally Closed Contact Heat Detector, 190°F, 88°C
301-210	Model T301 Normally Closed Contact Heat Detector, 210°F, 99°C
301-225	Model T301 Normally Closed Contact Heat Detector, 225°F, 107°C
301-275	Model T301 Normally Closed Contact Heat Detector, 275°F, 135°C
301-325	Model T301 Normally Closed Contact Heat Detector, 325°F, 163°C
301-360	Model T301 Normally Closed Contact Heat Detector, 360°F, 182°C
301-450	Model T301 Normally Closed Contact Heat Detector, 450°F, 232°C
Optional Accessories	
350-1	Junction box with mounting ears and terminal block for sensor connections. Copper free aluminum. Class I Groups C, D. Two 3/4 inch NPT connections for conduit or cable glands.

SST
Safety Systems Technology
23282 Mill Creek Drive | Ste. 215 | Laguna Hills | CA 92653 | USA
Tel: 1-949-583-1857 | Fax: 1-949-340-6643
Email: sales@safetysys.com | www.safetysys.com