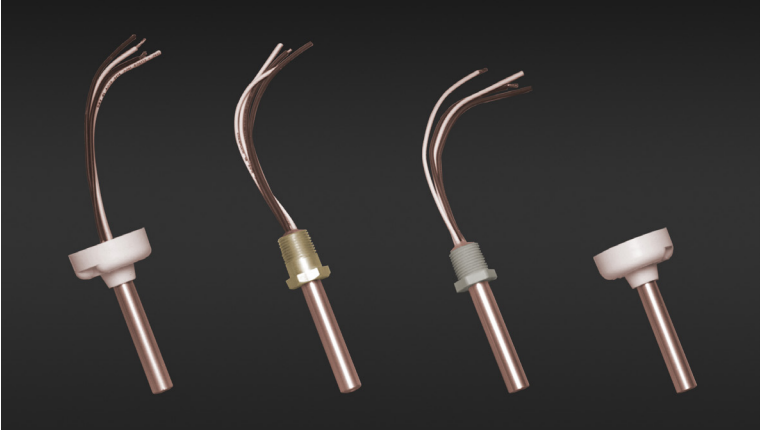


302 Series Heat Detectors



Features

- Easy installation.
- Rate anticipation, rate of rise & fixed temperature models.
- Self restoring (select models).
- Explosion & weatherproof models.

Description

The Protectowire Company offers a complete range of spot type heat detectors designed to accommodate a wide variety of applications and installation environments.

Rate Anticipation Type

The Thermotech 302 Series Heat Detectors operate on the rate anticipation principle, and are designed to actuate whenever the ambient temperature reaches the preset alarm temperature setting, regardless of the speed or rate of temperature rise. Under rapid heat rise conditions, the rate anticipation feature enables the detector to respond one to three degrees ahead of the setting. At the same time, however, it does not respond to momentary temperature fluctuations below the selected alarm level thus minimizing potential false alarms. When the temperature drops back down below the alarm level, the detector automatically resets itself.

All 302 Series Detectors are normally open devices and are available in either 135°F (57°C) or 194°F (90°C) ratings. Each unit is constructed with a high expansion .040 anodized aluminum sensing shell and fine silver contacts which are hermetically sealed to ensure reliable operation and are suitable for use in ambient temperatures down to -40°F (-40°C).

Electrical Rating

6-28 VDC, 1 amp. (all models)

Ordering Information

Model Number	Description	Approvals/Listings & Max. Spacing*	Max. Ambient Temp.
302-135	135°F - Interior, terminals, vertical mount.	UL - 50x50 ft. FM - 20x20 ft.	100°F (38°C)
302-194	194°F - Interior, terminals, vertical mount.	UL - 50x50 ft. FM - 30x30 ft.	150°F (66°C)
302-AW-135	135°F - All-weather, vertical mount. ¹	UL - 50x50 ft. FM - 20x20 ft.	100°F (38°C)
302-AW-194	194°F - All-weather, vertical mount. ¹	UL - 50x50 ft. FM - 30x30 ft.	150°F (66°C)
302-ET-135	135°F - All-weather, 1/2" thread, vert. mount. ²	UL - 50x50 ft. FM - 20x20 ft.	100°F (38°C)
302-ET-194	194°F - All-weather, 1/2" thread, vert. mount. ²	UL - 50x50 ft. FM - 30x30 ft.	150°F (66°C)
302-EPM-135	135°F - Explosion-proof, 1/2" thread, vert. mtd. ³	UL - 40x40 ft. N/A	100°F (38°C)
302-EPM-194	194°F - Explosion-proof, 1/2" thread, vert. mtd. ³	UL - 40x40 ft. N/A	150°F (66°C)
AP-P	Adapter plate required for mounting 302, 302ET and 302AW Models to 4 inch outlet box.		

*Refer to NFPA Standard 72 for specific application requirements for installation and spacing. Detectors must not be painted.

¹FM rating shown is for rate of rise only. Fixed temperature (only) rating is 10x10 ft.

Important Notes:

1. Moisture and dust proof. Requires no special back box when the all-weather leads are properly spliced to "THW" or equivalent type wire.
2. Moisture and dust proof. Requires no special back box. Has plastic bushing with 1/2 inch conduit threads for attachment to threaded hub cover, or any outlet box. Must be hand tightened only.
3. Model 302-EPM - Explosion proof detector intended for use in fire alarm systems where wiring is enclosed in threaded rigid conduit, and related fittings are listed for use in hazardous locations, Class I, Groups C and D, and Class II, Groups E, F, and G. Bushing has hexagonal grip and 1/2 inch size conduit threads for attachment to threaded hub cover of fixture fittings that are listed for use in hazardous locations. Explosion proof mounting requires a Killark Electric JL Series splice box and hub cover, or equivalent. Must be hand tightened only. For interior use.