

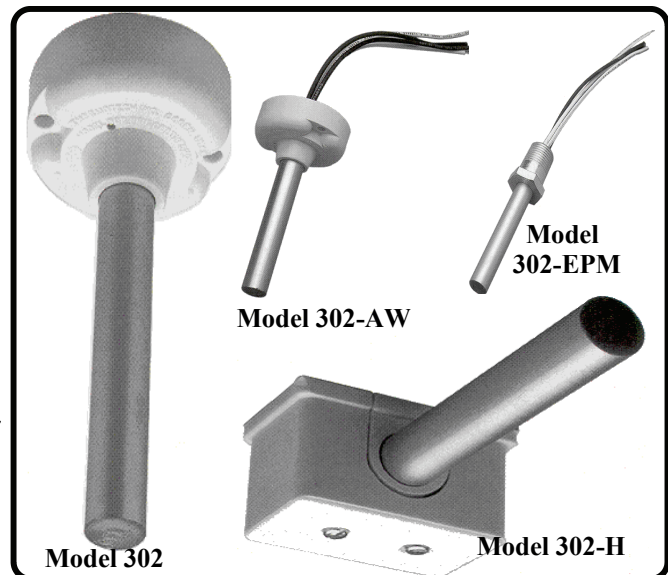
KFCi

302 Series
Heat Detectors



Description:

The 302 Series Heat Detectors is a normally open heat detector designed especially for fire detection and alarm systems. These rate compensation type heat detectors are available in either 135°F or 194°F ratings. All four basic models are self-restoring, hermetically sealed, shock resistant, corrosion resistant, and tamperproof. Installers should refer to NFPA Standard 72 (standard for automatic fire detectors) for application requirements, testing and maintenance.



302 Series
Heat Detectors

Operation:

The 302 Series Heat Detectors operates on the principles of a rate compensation detector. The detector consists of a high expansion aluminum tube which encases two insulation struts with opposing contact points. The high expansion sensing shell and the expansion struts have a different correlation of expansion. A slow rate of temperature rise allows the heat to penetrate the inner expansion struts. Therefore, the tubular shell and the struts expand until the device has been heated to its rated temperature level of 135°F / 194°F. At this point, the silver contact points close which initiates the alarm. When subjected to a rapid rate temperature rise there is not as much time for heat to penetrate the inner strut. The rapid lengthening of the shell allows the struts to come together at a lower level which compensates for thermal lag inherent in conventional fixed temperature detectors. When the surrounding air temperature goes below the rated temperature level, the shell contracts which forces the contacts to open, thus automatically resetting the detector.

Features:

- Hermetically sealed for moisture proof or dust proof installations
- Requires no special back box
- Both indoor and outdoor styles available
- Model 302-EPM is explosion proof for hazardous conditions
- Model 302-H designed for horizontal mounting
- All models are shock and corrosion resistant, and are tamperproof
- UL Listed and Factory Mutual Approved

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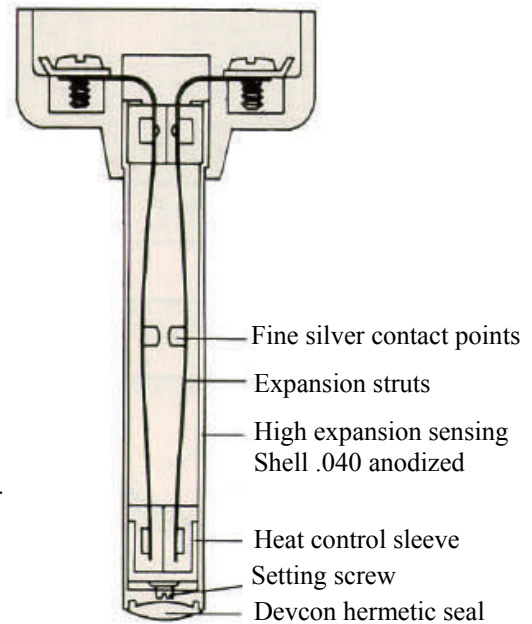
Dimensions (Model 302):

Total overall length: 4 1/8"
 Base Diameter: 2"

Temperature Ratings

Temp. Rating °F	Max Ceiling Temp. °F
135	100
194	150

Detectors have a smooth ceiling UL rating of 50' x 50' (2500 sq. ft.).
 Detectors, hub covers, or outlet boxes must never be installed in direct sunlight. Refer to NFPA STANDARD 72 for spacing and other considerations.



Ordering Information:

Model No.	Description
302-135	135°F Interior Vertical Mounting (FM Approved & UL Listed)
302-194	194°F Interior Vertical Mounting (FM Approved & UL Listed)
302-H-135	135°F Internal Horizontal Mounting (FM Approved & UL Listed)
302-H-194	194°F Internal Horizontal Mounting (FM Approved & UL Listed)
302-AW-135	135°F All-weather Vertical Mounting (FM Approved & UL Listed)
302-AW-194	194°F All-weather Vertical Mounting (FM Approved & UL Listed)
302-EPM-135	135°F Explosion Proof Mounting (UL Listed)
302-EPM-194	194°F Explosion Proof Mounting (UL Listed)
AP-P	Decorative white plastic adapter plate for mounting 302 and 302-AW to Any 3" outlet box or 4" octagon outlet box (See Below)
S302	Information Data Sheet

Wiring Information

