



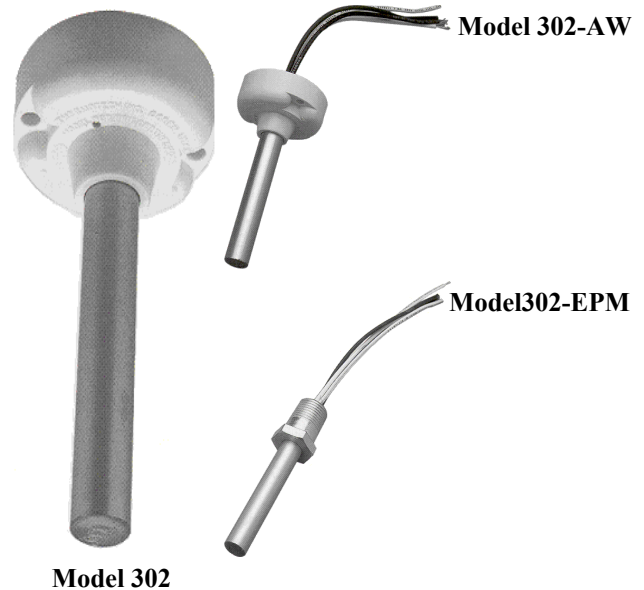
Kingfisher Company, inc.

302 Series Heat Detectors



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



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.

Operations:

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.

Specifications:

Dimensions

Model 302

Total Length 4 1/8"

Base Diameter 2"

Temperature Ratings Max Ceiling Temp. (°F)

KF302-135 115

KF302-194 155

*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

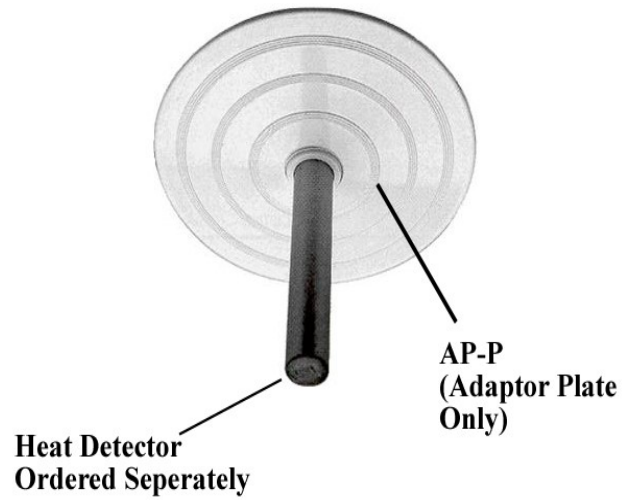
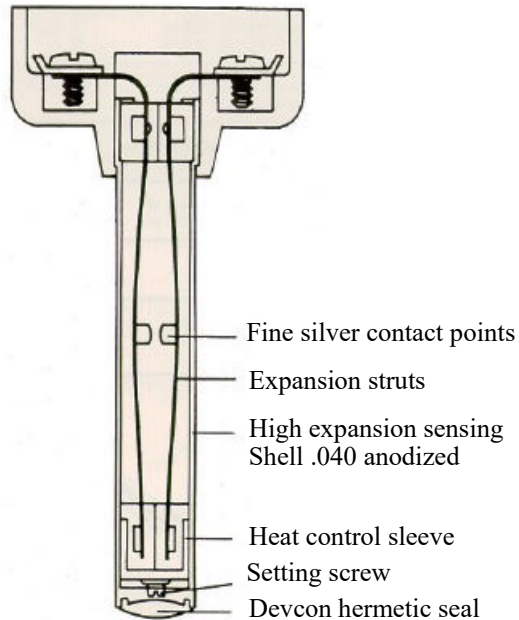
KCi #	Model #	Description
85055	KF302-135	Heat Detector, Vertical Mount, Rate Compensating, 135F
85025	KF302-194	Heat Detector, Vertical Mount, Rate Compensating, 194F
85021	KF302AW135	Heat Detector, Vertical Mount, Rate Compensating, 135F, Moisture/Dust Proof, Indoor/Outdoor
85024	KF302AW194	Heat Detector, Vertical Mount, Rate Compensating, 194F, Moisture/Dust Proof, Indoor/Outdoor
85012	KF302EPM135	Heat Detector, Vertical Mount, Rate Compensating, 135F, Explosion Proof
85031	KF302EPM135	Heat Detector, Vertical Mount, Rate Compensating, 194F, Explosion Proof
82037	KF-APP	Adapter Plate for Rate Compensating, Vertical Mount Detectors
85005-DTS		Specification Data Sheet

Kingfisher Company, inc., products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

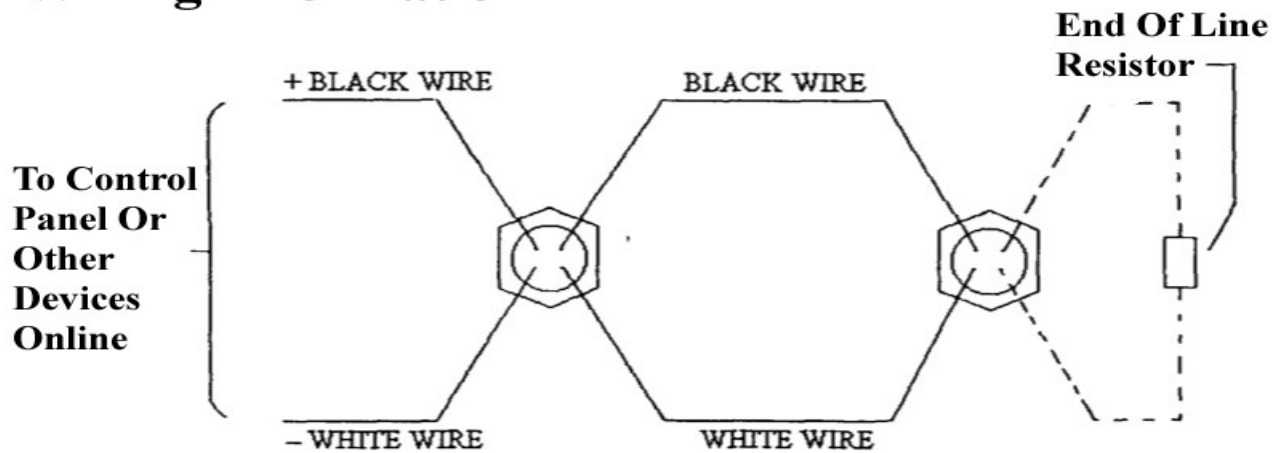
NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Kingfisher Company, inc., standard terms and conditions

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DRAWINGS OR DIAGRAMS



Wiring Information



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