

Harrington Signal Inc.  
2519 4th Avenue, Moline, Illinois 61265  
P.O. Box 590, Moline, Illinois 61266-0590  
Phone: (800) 577-5758 Local: (309) 762-0731 Fax: (309) 762-8215  
Internet: www.harringtonfire.com



### Description

Each model is a normally open device designed especially for fire detection and alarm systems. These rate compensation type detectors are available in either 135°F or 194°F ratings. All four basic models are self-restoring, hermetically sealed, shock and corrosion resistant, and are tamper-proof.

All models operate on the principles of a rate compensation detector. The detector consists of a high expansion aluminum tube which encases two insulation struts with opposing open constant points. The high expansion sensing shell and the expansion struts have a different co-efficient 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 slowly until the total device has been heated to its rated temperature level of 135°F or 194°F. At this point, the silver contact points close which

initiates the alarm. When subjected to a rapid 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 temperatures goes below the rated temperature level, the shell contracts which forces contacts to open, which automatically resets the detector.

#### Model 302

For interior mounting in any atmosphere that is compatible with terminal screw type connections.

#### Model 302-ET

Hermetically sealed for moisture proof or dust proof installations. Requires no special back box. Has plastic hexagonal grip bushing with 1/2" conduit threads hub cover, or any outlet box. Must be *hand tightened only*



Model 302



Models 302-ET & 302-EPM



Model 302-AW



Model AP-P

For indoor and outdoor use. Protect from sunlight and adverse weather conditions.

### Ordering Information

Model Number	Part Number	Description
302-135	302-135	Heat Detector, 135 Deg., Vertical Mt., Interior
302-194	302-194	Heat Detector, 194 Deg., Vertical Mt., Interior
302-ET-135	302-ET-135	Heat Detector, 135 Deg., Vertical Mt., Hex Bushing, All-Weather (may mount horizontal)
302-ET-194	302-ET-194	Heat Detector, 194 Deg., Vertical Mt., Hex Bushing, All-Weather (may mount horizontal)
302AW-135	302AW-135	Heat Detector, 135 Deg., Vertical Mt., All-Weather
302AW-194	302AW-194	Heat Detector, 194 Deg., Vertical Mt., All-Weather
302EPM-135	302EPM-135	Heat Detector, 135 Deg., Explosion-proof
302EPM-194	302EPM-194	Heat Detector, 194 Deg., Explosion-proof
AP-P	AP-P	Decorative White Plastic Adapter Plate for mounting 302, 302ET and 302AW to any 3" outlet box or 4" octagon outlet box.

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*Model 302-EPM*

Explosion-proof for installation in hazardous locations. Has hexagonal grip bushing with 1/2" conduit threads for attachment to threaded hub cover of series JL fixture fitting as manufactured by Killark Electric Co., or equal. Must be hand tightened only. For Interior use.

*Model 302-AW*

Hermetically sealed for moisture proof or dust proof installations. Requires no special back box. For indoor and outdoor use. Protect from direct sunlight and adverse weather conditions.

<b>Electrical Ratings</b>		
Voltage	Current	
6-125VAC	5 Amps	
6-25VAC	1 Amp	
125VDC	0.5 Amps	
<b>Temperature Ratings</b>		
Temp. Rating	Min. Ambient Air Temp.	Max. Ceiling Temp.
135°F	-40°	115°F
194°F	-40°	155°F

Detectors are not directionally effected, can be mounted horizontally or vertically. Detectors have a smooth ceiling UL rating of 50' x 50' (2500 sq. Ft.) On 8 to 10 ft. ceilings. Detectors, hub covers, or outlet boxes must never be installed in direct sunlight. Refer to NFPA Standard 72 for spacing and other considerations.

<b>Model</b>	<b>Description</b>
302-135	135°F - Interior Vertical Mounting, FM & UL
302-194	194°F - Interior Vertical Mounting, FM & UL
302-ET-135	135°F - All Weather Vertical Mounting, FM & UL
302-ET-194	194°F - All Weather Vertical Mounting, FM & UL
302-AW-135	135°F - All Weather Vertical Mounting, FM & UL
302-AW-194	194°F - All Weather Vertical Mounting, FM & UL
302-EPM-135	135°F - Explosion Proof Mounting, UL
302-EPM-194	194°F - Explosion Proof Mounting, UL
AP-P	Decorative white plastic adapter plate for mounting 302, 302ET and 302AW to any 3" outlet box or 4" octagon outlet

NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information are provided with the product and are available from Harrington Signal Inc. Fire Alarm. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact Harrington Signal Inc. Harrington Signal Inc. Fire Alarm reserves the right to change specifications without notice. Quality manufactured for Harrington Signal Inc. by Fire-Lite Alarms.

Call for availability on items not listed in the ordering information