

**EPR** – The EPR series contains an extruded flame retardant jacket of polypropylene elastomer with a special UV stabilizer added to enhance weathering performance. It is intended for a wide range of industrial applications and is characterized by high resiliency, good abrasion resistance, excellent weathering properties, and good high temperature performance. EPR provides better overall performance at higher ambient temperatures than either EPC or EPN.

**TRI** – Type TRI Protectowire is a unique dual temperature detector which is capable of initiating separate pre-alarm and alarm signals once each of its rated activation temperatures is reached. The Detector consists of a durable vinyl outer jacket which features low moisture absorption, resistance to many common chemicals, excellent flexibility and flame retardant. For complete information on this product, please refer to Data Sheet 9114.

**XLT** – Protectowire Type XLT is a unique detector that has been designed for use in cold storage facilities and other applications that require a low alarm activation temperature. The outer jacket consists of a proprietary flame retardant polymer that is specifically formulated to provide low moisture absorption, good chemical resistance, and excellent low temperature environmental performance. This detector has been UL and FM tested to -60°F (-51°C).

### Electrical

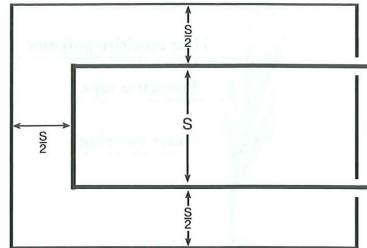
All cables are rated for 30 VAC, 42 VDC. Resistance is approximately one ohm per five feet (1.5m) of twisted pair (two conductors).

### Installation

Protectowire Linear Heat Detector is approved as a heat actuated automatic fire detector and is intended to be used on a supervised initiating circuit of an approved fire protective signaling control unit. The Detector must be installed in continuous runs without

taps or branches in accordance with applicable sections of NFPA 70 National Electrical Code, NFPA 72 National Fire Alarm Code, or as determined by the local "authority having jurisdiction."

Protectowire may be installed at the ceiling level or on the side walls within 20 inches of the ceiling, to protect areas within buildings (area protection). The Detector has the additional benefit of being suitable for installation close to the hazard in order to provide a



Ceiling of protected area  
S=Listed spacing. See chart below.

rapid response (proximity or special application protection).

On smooth ceilings, the distance between detector runs shall not exceed the listed spacing. There shall be a detector run within a distance of one-half the listed spacing, measured at a right angle, from all walls, or partitions extending to within 18 inches (460 mm) of the ceiling as shown in the illustration.

The listed spacing shall be used as a guide or starting point in detector installation layout. Reduced spacing is required based upon factors such as ceiling height and construction, physical

### Temperature Ratings and Model Numbers *(Use Linear Detector of Proper Temperature Rating)*

Product Type	Model Number	Alarm Temperature	Max. Ambient Temperature	Approvals/Max. Listed Spacing	
				UL/cUL	FM
<b>EPC</b>					
Multi-Purpose/ Commercial & Industrial Applications	PHSC-155-EPC	155° F (68° C)	Up to 100°F (38°C)	50 ft. / 15.2m	30 ft. / 9.1m
	PHSC-190-EPC	190° F (88° C)	Up to 150°F (66°C)	50 ft. / 15.2m	30 ft. / 9.1m
	PHSC-220-EPC	220° F (105° C)	Up to 175°F (79°C)	N/A	25 ft. / 7.6m
	PHSC-280-EPC	280° F (138° C)	Up to 200°F (93°C)	50 ft. / 15.2m	25 ft. / 7.6m
	PHSC-356-EPC	356° F (180° C)	Up to 221°F (105°C)	50 ft. / 15.2m	See Note 1
<b>EPN</b>					
Excellent Abrasion Resistance	PHSC-190-EPN	190° F (88° C)	Up to 150°F (66°C)	50 ft. / 15.2m	30 ft. / 9.1m
<b>EPR</b>					
Good Weathering Properties & High Temperature Jacket Performance	PHSC-155-EPR	155° F (68° C)	Up to 100°F (38°C)	50 ft. / 15.2m	30 ft. / 9.1m
	PHSC-190-EPR	190° F (88° C)	Up to 150°F (66°C)	50 ft. / 15.2m	30 ft. / 9.1m
	PHSC-280-EPR	280° F (138° C)	Up to 200°F (93°C)	50 ft. / 15.2m	25 ft. / 7.6m
	PHSC-356-EPR	356° F (180° C)	Up to 250°F (121°C)	50 ft. / 15.2m	See Note 1
<b>TRI</b>					
Applications Requiring Pre-alarm	PHSC-6893-TRI	Pre-alarm: 155° F (68° C) Alarm: 200° F (93° C)	Up to 100°F (38°C)	N/A	15 ft. / 4.6m
<b>XLT</b>					
Multi-Purpose/ Excellent Low Temp. Properties	PHSC-135-XLT	135° F (57° C)	Up to 100°F (38°C)	50 ft. / 15.2m	30 ft. / 9.1m

Note 1: FM Approved for special application use only.

All Protectowire models can be supplied on Messenger Wire. Add suffix "-M" to above model numbers.