

Protectowire Linear Heat Detector with Messenger Wire



Features

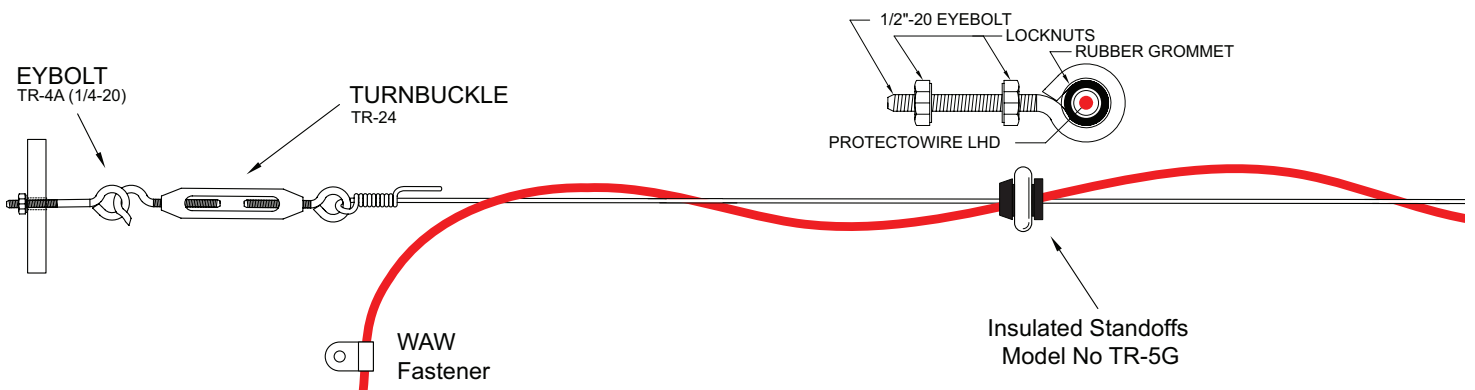
- Line coverage... continuous sensitivity.
- Eight alarm temperature ratings.
- The ability to withstand severe environmental conditions.
- Approval for use hazardous locations when used with required equipment.
- Ease of installation, testing, and splicing.
- Compatibility with other initiation devices on same circuit.
- Listed for spacing up to 50 ft. (15.2m).

Description

Messenger wire is a high tensile strength 316 stainless steel wire that is wound around the linear heat detector at approximately one turn per foot (0.3m). Messenger wire is designed to simplify the installation of the detector in areas where mounting is difficult due to the lack of appropriate support structures or mounting surfaces.

When using messenger wire to support the linear heat detector, turnbuckles and eyebolts must be employed at each

end of the stainless wire to apply tension to the detector run. The maximum detector run length between turnbuckles should not exceed 250 feet (76m) and the wire must also be supported with a recommended intermediate fastener range of 15 – 50 feet (4.5 – 15m). Intermediate fastener spacing should never exceed 50 feet (15m). Outdoor messenger wire installations present additional challenges due to environmental factors such as snow loads, ice build-up or wind. Increased detector support must be provided by using additional intermediate fasteners with closer spacing in all outdoor installations.



Accessories

The Protectowire Company offers an assortment of fasteners and splicing devices to facilitate installation for both standard and special applications. Full details are available upon request.

Model Numbers, Temperature Ratings, and Approved Spacing

Product Type	Model Number	Alarm Temperature	Max. Ambient Temperature	UL/cUL Approval/ Max. Listed Spacing	FM Approval/ Max. Listed Spacing
PHSC-EPC Multi-Purpose/ Commercial & Industrial Applications	PHSC-155-EPC-M	155°F (68°C)	115°F (46°C)*	50 ft. / 15.2m	30 ft. / 9.1m
	PHSC-172-EPC-M	172°F (78°C)	130°F (54°C)	50 ft. / 15.2m	30 ft. / 9.1m
	PHSC-190-EPC-M	190°F (88°C)	150°F (66°C)	50 ft. / 15.2m	30 ft. / 9.1m
	PHSC-220-EPC-M	220°F (105°C)	175°F (79°C)*	50 ft. / 15.2m	25 ft. / 7.6m
	PHSC-280-EPC-M	280°F (138°C)	200°F (93°C)	50 ft. / 15.2m	25 ft. / 7.6m
	PHSC-356-EPC-M	356°F (180°C)	221°F (105°C)	50 ft. / 15.2m	See Note 1
PHSC-XCR High Performance/ Industrial Applications Excellent Abrasion & Chemical Resistance	PHSC-155-XCR-M	155°F (68°C)	115°F (46°C)*	50 ft. / 15.2m	30 ft. / 9.1m
	PHSC-172-XCR-M	172°F (78°C)	130°F (54°C)	50 ft. / 15.2m	30 ft. / 9.1m
	PHSC-190-XCR-M	190°F (88°C)	150°F (66°C)	50 ft. / 15.2m	30 ft. / 9.1m
	PHSC-220-XCR-M	220°F (105°C)	175°F (79°C)*	50 ft. / 15.2m	25 ft. / 7.6m
	PHSC-280-XCR-M	280°F (138°C)	200°F (93°C)	50 ft. / 15.2m	25 ft. / 7.6m
	PHSC-356-XCR-M	356°F (180°C)	250°F (121°C)	50 ft. / 15.2m	See Note 1
PHSC-LSZH Multi-Purpose/Low Smoke Zero Halogen	PHSC-135-LSZH-M	135°F (57°C)	100°F (38°C)	50 ft. / 15.2m	30 ft. / 9.1m
	PHSC-155-LSZH-M	155°F (68°C)	115°F (46°C)*	50 ft. / 15.2m	30 ft. / 9.1m
	PHSC-172-LSZH-M	172°F (78°C)	130°F (54°C)	50 ft. / 15.2m	30 ft. / 9.1m
	PHSC-190-LSZH-M	190°F (88°C)	150°F (66°C)	50 ft. / 15.2m	30 ft. / 9.1m
	PHSC-220-LSZH-M	220°F (105°C)	175°F (79°C)*	50 ft. / 15.2m	25 ft. / 7.6m
	PHSC-280-LSZH-M	280°F (138°C)	200°F (93°C)	50 ft. / 15.2m	25 ft. / 7.6m
	PHSC-356-LSZH-M	356°F (180°C)	250°F (121°C)	50 ft. / 15.2m	See Note 1
PHSC-XLT Multi-Purpose/Excellent Low Temp. Properties	PHSC-135-XLT-M	135°F (57°C)	100°F (38°C)	50 ft. / 15.2m	30 ft. / 9.1m
PLR-EPR Good Weathering Properties & Flexibility Over a Wide Temperature Range	PLR-155-EPR-M	155°F (68°C)	115°F (46°C)*	50 ft. / 15.2m	30 ft. / 9.1m
	PLR-172-EPR-M	172°F (78°C)	130°F (54°C)	50 ft. / 15.2m	30 ft. / 9.1m
	PLR-190-EPR-M	190°F (88°C)	150°F (66°C)	50 ft. / 15.2m	30 ft. / 9.1m
PLR-XCR High Performance/ Industrial Applications Excellent Abrasion & Chemical Resistance	PLR-500-XCR-M	500°F (260°C)	392°F (200°C)	50 ft. / 15.2m	See Note 1

*For open area applications the recommended UL 521 maximum ambient temperature for all 155 models is 100°F (38°C), and 220 models is 150°F (66°C).

Temperatures shown in table are acceptable for UL Special Application use. **PHSC-135°F XLT has been UL Listed and FM Approved for -60°F (-51°C).

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.