



Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment:

Series PHSC, Types EPC, XLT, EPR, XCR and LSZH

Approval Guide Listing: Category: (see page 2 for listing text)

Electrical Signaling; Electrical Signaling, Alarm Signal Initiating Devices, Fire Detection, Heat-Actuated, Fire Detection, Heat-Actuated

Listing appears on following pages.

The Protectowire Company
60 Washington Street
Pembroke, MA 02359 USA

This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report(s), of the following FM Approval Standards and other documents:

<i>Approval Standards</i>		<i>Approval Standards</i>		<i>Other Standards</i>	
<i>Class Number</i>	<i>Date</i>	<i>Class Number</i>	<i>Date</i>	<i>Organization, Designation</i>	<i>Date</i>
3210	2021	3010	2021	ANSI/ ISA 60079-0	2013
3610	2021			ANSI/ISA 60079-11	2014
3600	2022				

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To verify the availability of the Approved product, please refer to www.approvalguide.com


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30 March 2023

Date



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Certificate of Compliance

Electrical Signaling, Alarm Signal Initiating Devices, Fire Detection, Heat-Actuated, Fire Detection, Heat-Actuated

Series PHSC

Series PHSC, Types EPC, XLT, EPR, XCR, and LSZH fixed temperature, heat-sensitive cable for area heat detection.				
PHSC-EPC		Alarm Temp.	Max Ambient Temp.	Max. Spacing
PHSC-155-EPC		155°F (68°C)	115°F (46°C)	30 ft. / 9.1m
PHSC-172-EPC		172°F (78°C)	130°F (54°C)	30 ft. / 9.1m
PHSC-190-EPC		190°F (88°C)	150°F (66°C)	30 ft. / 9.1m
PHSC-220-EPC		220°F (105°C)	175°F (79°C)	25 ft. / 7.6m
PHSC-280-EPC		280°F (138°C)	200°F (93°C)	25 ft. / 7.6m
PHSC-356-EPC		356°F (180°C)	221°F (105C)	Special App.
PHSC-XCR High Performance/Industrial Applications Excellent Abrasion & Chemical Resistance				
PHSC-155-XCR		155°F (68°C)	115°F (46°C)	30 ft. / 9.1m
PHSC-172-XCR		172°F (78°C)	130°F (54°C)	30 ft. / 9.1m
PHSC-190-XCR		190°F (88°C)	150°F (66°C)	30 ft. / 9.1m
PHSC-220-XCR		220°F (105°C)	175°F (79°C)	25 ft. / 7.6m
PHSC-280-XCR		280°F (138°C)	200°F (93°C)	25 ft. / 7.6m
PHSC-356-XCR		356°F (180°C)	250°F (121°C)	Special App.
PHSC-LSZH Multi-Purpose/Low Smoke Zero Halogen				
PHSC-135-LSZH		135°F (57°C)	100°F (38°C)	30 ft. / 9.1m
PHSC-155-LSZH		155°F (68°C)	115°F (46°C)	30 ft. / 9.1m
PHSC-172-LSZH		172°F (78°C)	130°F (54°C)	30 ft. / 9.1m
PHSC-190-LSZH		190°F (88°C)	150°F (66°C)	30 ft. / 9.1m
PHSC-220-LSZH		220°F (105°C)	175°F (79°C)	25 ft. / 7.6m
PHSC-280-LSZH		280°F (138°C)	200°F (93°C)	25 ft. / 7.6m
PHSC-356-LSZH		356°F (180°C)	250°F (121°C)	Special App.
PHSC-EPR Good Weathering Properties & Flexibility Over a Wide Temperature Range				
PHSC-155-EPR		155°F (68°C)	115°F (46°C)	30 ft. / 9.1m
PHSC-172-EPR		172°F (78°C)	130°F (54°C)	30 ft. / 9.1m
PHSC-190-EPR		190°F (88°C)	150°F (66°C)	30 ft. / 9.1m
PHSC-220-EPR		220°F (105°C)	175°F (79°C)	25 ft. / 7.6m
PHSC-280-EPR		280°F (138°C)	194°F (90°C)	25 ft. / 7.6m
PHSC-356-EPR		356°F (180°C)	194°F (90°C)	Special App.
PHSC-XLT Multi-Purpose/Excellent Low Temp. Properties				
PHSC-135-XLT		135°F (57°C)	100°F (38°C)	30 ft. / 9.1m
Interface Modules				
PIM-230/-E		operating range is -40°F (-40°C) to 140°F (60°C)		
PIM-530/-E		PIM-530 operating temperature range is -20°F (-29°C) to 140°F (60°C). Operates on 12 or 24 V dc and provides relay, 4-20 mA, Modbus RTU over RS-485 outputs for connection to a compatible Approved control.		
PIM-530-EI Interface Module is associated apparatus with intrinsically safe connections to Class I, II and III, Division 1, Groups A, B, C, D, E, F and G; [AEx ia Ga] IIC hazardous (classified) locations.				
Series PHSC Linear Heat Detectors and ZB-4-QC-MP Zone Boxes are intrinsically safe for use in Class I, II and III, Division 1, Groups A, B, C, D, E, F and G; Class I, Zone 0, AEx ia IIC T6 Ga -29°C ≤ Ta ≤ +60°C hazardous (classified) locations when connected via the PIM-530-EI, PIM-530I, in accordance with Control Drawing IL1626				



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