



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 3045</b>	22-Apr-2016	Number 6	Issue date 1-May-2021	30-Apr-2022

## Product designation

**Protectorwire, XCR Series, Type E, linear heat detector**

(Refer to the Schedule/enclosures for further specified details)

## Agent/distributor

Fire Protection Technologies Pty Ltd  
Unit 1 / 251 Ferntree Gully Road, MT WAVERLEY, VIC, AUSTRALIA, 3149

## Registrant

Fire Protection Technologies Pty Ltd  
Unit 1 / 251 Ferntree Gully Road, MT WAVERLEY, VIC, AUSTRALIA, 3149

### Producer

The Protectowire Co., Inc.  
60 Washington Street, PEMBROKE, MA, UNITED STATES, 02359

## Conformance criteria and evaluation

The Protectorwire, XCR Series, Type E, linear heat detectors have been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.1-1997, 'Automatic fire detection and alarm systems - Heat detectors' incl. Amdt 1 (August 1998).

## Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. The product identification tag, threaded to the linear heat detector wire, shall be affixed with a yellow dot (Type E) marking.
- ii. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

David Whittaker  
Executive Officer – ActivFire Scheme



# Schedule to Certificate of Conformity

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## Producer's description

Protectowire, XCR Series, Type E, linear heat detectors are comprised of two steel conductors individually encased in a heat sensitive polymer. The encased conductors are twisted together to impose a spring pressure between them, then spirally wrapped with a protective tape and finished with an outer jacket to suit the installation environment.

At the rated operating temperature, the detector's heat sensitive polymer insulation yields to the pressure upon it, permitting the inner conductors to move into contact with each other. This action takes place at the first heated point anywhere along the Detector's length. It does not require that any specified length be heated in order to initiate an alarm.

This product is a fixed temperature sensor and is therefore capable of initiating an alarm at any point along its length, once the rated actuation temperature is reached

## Technical specification

The following details are a representative extract of the technical specification for the Protectorwire, XCR Series, Type E, linear heat detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

### Schedule of variant designations

The following is a schedule of validated variant designations of the certified/listed equipment.

Variant		Catalogue entry	Temperature rating	Type	Jacket material	Description
Type	Product label					
Model	XCR 155°F (68°C)	PHSC-155-XCR	68°C (155°F)	XCR	FluoroPolymer	High Performance / Industrial Applications linear heat detector
	XCR 190°F (88°C)	PHSC-190-XCR	88°C (190°F)			
	XCR 220°F (105°C)	PHSC-220-XCR	105°C (220°F)			
	XCR 280°F (138°C)	PHSC-280-XCR	138°C (280°F)			
	XCR 356°F (180°C)	PHSC-356-XCR	180°C (356°F)			

## Supplementary information

### Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
Report	XF2926/R1	Evaluation for conformity of the Protectowire XCR Series Linear Heat Detector to the requirements of AS 1603.1-1997	17-Mar-2016	CSIRO, Infrastructure Technologies, Fire Systems and Acoustics
Manual	MAN 2001C - 0301	PROTECTOWIRE LINEAR HEAT DETECTOR Installation, Operation & Maintenance Manual	20-mar-2001	The Protectowire Company, Inc., US