

# (1) EC TYPE-EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 94/9/EC**
- (3) EC Type-Examination Certificate Number

## TÜV 14 ATEX 7569 X

- (4) **Equipment:** Surge protectors
- (5) **Manufacturer:** Novaris Pty Ltd
- (6) **Address:** 72 Browns Road  
Kingston, Tasmania 7050  
Australia

- (7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle for ex-protected products of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex569.00/14

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

**EN 60079-0: 2012**

**EN 60079-11: 2012**

except the requirements, which are listed under item (18).

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-Type-Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



**II 1 G Ex ia IIC T4 Ga**

TÜV Rheinland ExNB for explosion protected equipment

Cologne, 2014-12-17

Dipl.-Ing. Klauspeter Graffi

This EC-Type-Examination Certificate without signature and stamp shall not be valid.  
This EC-Type-Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Notified Body of TÜV Rheinland Industrie Service GmbH, Am Grauen Stein 51105 Köln  
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Annex to

(14) **EC-Type Examination Certificate**  
**TÜV 14 ATEX 7569 X**

(15) **Description of equipment**

**15.1 Equipment and type:**

Surge protectors

**15.2 Description**

General product information

The surge protectors are installed in intrinsically safe systems to protect equipment and wiring from transients and surges.

Under normal operating conditions, the devices are not operational and do not affect the system operation.

**IS-SL** range: Slimline signal line protectors suitable for process control applications. This range of products are assembled on a single printed circuit board that is fitted in a polyamide case with external connecting pins. The enclosure measures 44mm x 40mm x 6mm.

**IS-SLDIN** range: Slimline DIN-rail bases to accommodate the IS-SL slimline signal line protectors.

**IS-SLT** range: Threaded instrument protectors for transmitter protection. The protector is assembled on a single printed circuit board that is fitted in a hollow stainless steel plug with external thread of M20, for mounting on an enclosure wall. The length of the enclosure measures 54mm. The electronics are encapsulated in a two part epoxy resin.

**IS-SSP6A** range: This range of products are assembled on a single printed circuit board that is fitted in a polyamide case with external connecting pins. The enclosure measures 44mm x 40mm x 6mm.

**IS-LCP** range: Load cell protectors suitable for load cell applications. The IS-LCP comes in to variants. Type 1V1 features a single printed circuit board with screw terminals, mounted within an aluminum enclosure with cable gland entries. The printed circuit board and components are encapsulate in a two part epoxy resin leaving only the screw termination points free. The enclosure measures 116mm x 66mm x 55mm. Type 2V1 is a printed circuit board with screw terminal connections and supplied without an enclosure.

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### 15.3 Technical Data

Model Range	Ui (V)	Ii (A)	Pi (W)	GROUP IIC	
				Ci (nF)	Li (uH)
IS-SL	30	1.639	1.3	0	0
IS-SL-RTD	30	1.639	1.3	0	0
IS-SL-485	30	1.639	1.3	0	0
IS-SL-DH	30	1.639	1.3	0	0
IS-SL-PSTN	17.2	1.639	1.3	210	0
IS-SL-iSwitch	30	1.639	1.3	0	0
IS-SL420i	34	1.639	1.3	0	0
IS-SSP6A	30	1.639	2.2	0	0
IS-SLT1	30	3.0	2.2	0.2	0.2
IS-SLT3	30	3.0	2.2	0.2	0.2
IS-SLT4	30	3.0	2.2	0.2	0.2
IS-LCP	30	3.0	2.4	0	0
IS-SLDIN	30	3.0	2.4	0	0

(16) **Test-Report No.** 557/Ex569.00/14

Parts of the device, which already fulfill the requirements for the category, were not approved and assessed by TÜV Rheinland Industrie Service.

The applicability and assembly of electrical parts and components were assessed and approved by TÜV Rheinland Industrie Service with respect to the requirements of explosion protection.

(17) **Special Conditions for safe use**

1. This series of protectors do not satisfy the requirement for avoidance of build-up of electrostatic charge in accordance with clause 7.4.2 of EN 60079-0:2011. Manufactures documentation must be followed to ensure that at installation, the risk from electrostatic discharge is minimized.
2. This series of protectors do not satisfy the requirements for aluminum content in accordance with clause 8.3 of EN 60079-0:2011. Account of this shall be taken on installation to avoid ignition hazards due to impact or friction.
3. This series of protectors do not satisfy the requirements of the dielectric strength test in accordance with clause 6.3.13 of EN 60079-11:2011 for the enclosure. Manufacturer's documentation must be followed to ensure correct installation.

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4. This series of protectors has the signal wires electrically connected to SCR or SCN terminal.
5. This series of protectors has the signal wires electrically connected to GND/Earth terminal.
6. Depending on the installation the circuits may have to be judged as earthed circuit and the appropriate installation rules have to be applied.
7. Less than 500V isolation exists between lines and earth due to surge protection characteristics. The appropriate installation rules according to EN 60079-14 and/or national equivalent have to be applied.

	1	2	3	4	5	6	7
IS-SL	X				X	X	X
IS-SLDIN-G	X				X	X	X
IS-SLDIN-EC90	X				X		X
IS-SSP6A	X				X	X	X
IS-LCP		X	X	X	X		X
IS-SLTx							X

(18) **Basic Safety and Health Requirements**

Covered by afore mentioned standard

TÜV Rheinland ExNB für explosion protected equipment

Cologne, 2014-12-17

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