



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx CML 17.0030X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2017-07-14)

Status: **Current** Issue No: 1

Date of Issue: 2020-10-29

Applicant: **Pneumatrol Limited**
West End Business Park
Blackburn Road
Oswaldtwistle, Nr Accrington
Lancashire, BB5 4WZ
United Kingdom

Equipment: **Solenoid Assembly Type EP000/ia**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Gas marking:**
Ex ia IIC T6..T5 Ga
Tamb: See Annex
Dust marking:
Ex ia IIIB T135°C T₅₀₀ 175°C Da
Tamb: -40°C to +65°C
Tamb: -55°C to +65°C (TB/S02 type*)
* Refer to the nomenclature in the certificate annex for model numbers.

Approved for issue on behalf of the IECEx
Certification Body:

A Snowdon MIET

Position:

Assistant Certification Manager

Signature:
(for printed version)

A Snowdon

Date:

2020-10-29

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Manufacturer: **Pneumatrol Limited**
West End Business Park
Blackburn Road
Oswaldtwistle, Nr Accrington
Lancashire, BB5 4WZ
United Kingdom

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/CML/ExTR17.0053/00](#)

[GB/CML/ExTR20.0211/00](#)

Quality Assessment Report:

[GB/CML/QAR16.0014/03](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Solenoid Assembly type EP000/ia is an electro-magnetic actuator for a control valve.

See Annex for full description and Conditions of manufacture

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex fo Specific Conditions of Use



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

This variation/issue introduced the following modifications:

1. To reduce the minimum operating temperature of the 'TB' (/S02) model to -55°C.
2. Update of standard to IEC 60079-0 Ed. 7.
3. The introduction of alternative model names.

Annex:

[IECEx CML 17.0030X Annex Issue 1.pdf](#)

Annexe to: IECEx CML 17.0030X Issue 1
Applicant: Pneumatrol Limited
Apparatus: Solenoid Assembly Type EP000/ia



Description

The Solenoid Assembly Type EP000/ia is designed as an electro-magnetic actuator for a control valve. The coil is mounted on a glass filled nylon former and two shunt connected diodes or a bridge rectifier are fitted to a printed circuit board beneath the terminal block.

The unit is contained in an enclosure of steel, stainless steel or aluminium and the coil and diodes are encapsulated to a depth of 1mm. External connection may be to a terminal block contained within the enclosure, to a plug and socket, or via a flying lead.

The equipment may be marked with alternative model names as described in the table below:

Nomenclature:

Solenoid Assembly Type EP000/ia/xx		Alternative model name
Where xx represents the connection type:		
FL	- 2 x 22 AWG 230 mm Flying Leads	S06
TB	- 2-Pole Terminal Block 90° Conduit Entry	S02
IL	- 2-Pole Terminal Block, In-Line Conduit Entry	S05
PS	- 2 Pin Plug (with accompanying 2 -pin socket) with gasket	S04
SS	- Stainless Steel Case	S03

Ratings:

Group II:

U_i = 31 V
 I_i = 0.67 A

Pi =	T-Class	Pi = 1 W	Pi = 2.98 W
	T5	Tamb: -40°C to +65°C Tamb: -55°C to +65°C (TB/S02 type)	Tamb: -40°C to +65°C Tamb: -55°C to +65°C (TB/S02 type)
	T6	Tamb: -40°C to +65°C Tamb: -55°C to +65°C (TB/S02 type)	Tamb: -40°C to +50°C Tamb: -55°C to +50°C (TB/S02 type)

C_i = 0

L_i = 0

Unit 1, Newport Business Park
 New Port Road
 Ellesmere Port
 CH65 4LZ

T +44 (0) 151 559 1160
 E info@cmllex.com

www.cmllex.com

Company Reg No. 8554022 VAT No. GB163023642



Group III:

U _i =	31 V
I _i =	0.67 A
P _i =	2.98 W
C _i =	0
L _i =	0

Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. The equipment shall be subjected to routine tests in accordance with the requirement of IEC 60079-11, Clause 6.3.13, Dielectric strength. The insulation between the intrinsically safe circuit and the frame of the electrical equipment or parts which may be earthed shall be capable of complying with the test described in 10.3 at an r.m.s. a.c. test voltage of 500 V r.m.s. for at least 60 s. No breakdown shall occur.

Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- i. The enclosure is manufactured from Aluminium. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation, particularly if the equipment is installed in a Zone 0 or 20 location.
- ii. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on these surfaces, such as Steam generation or blown/fast moving dust. This is particularly important if the equipment is installed in a Zone 0 or 20 location. In addition, the equipment shall only be cleaned with a damp cloth.
- iii. Full Temperature Class/Ambient Temperature Range information is not present on the equipment marking label, refer to the Description for full equipment marking details.