IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

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

Ex COMPONENT CERTIFICATE

Certificate No.: IECEx FTZU 10.0024U

Issue No: 1

Certificate history:
Issue No. 1 (2018-11-23)
Issue No. 0 (2011-02-24)

Status: **Current**

Date of Issue: **2018-11-23**

Applicant: **IMO Precision Controls Ltd**
The Interchange, Frobisher Way
Hatfield, Hertfordshire, AL10 9TG
United Kingdom

Ex Component: **Range of rail mounted terminals types ER*; ER*P; ER4C; ERPE*; ERPE*P**

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Increased safety**

Marking:
Ex eb IIC Gb

Approved for issue on behalf of the IECEx Certification Body:

Dipl. Ing. Lukáš Martinák

Position:

Head of the Certification Body

Signature:
(for printed version)

Date:

2018-11-23

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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 the Official IECEx Website.

Certificate issued by:

Fyzikalne technicky zkusebni ustav
(Physical -Technical Testing Institute)
Pikartska 7, 71607 Ostrava - Radvanice
Czech Republic

FTZÚ Ex

IECEx Certificate of Conformity

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Manufacturer:	**IMO Precision Controls Ltd** The Interchange, Frobisher Way Hatfield, Hertfordshire, AL10 9TG **United Kingdom**	

Additional Manufacturing location(s):

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 Component 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 Ex Component 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

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

TEST & ASSESSMENT REPORTS:

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

Test Report:

CZ/FTZU/ExTR10.0024/00 CZ/FTZU/ExTR10.0024/01

Quality Assessment Report:

CZ/FTZU/QAR11.0003/03

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Schedule

Ex Component(s) covered by this certificate is described below:

The type ER*; ER*P; ER4C; ERPE*; ERPE*P range of rail mounted terminals consist of one layer current bar and allow to connect two conductors, except type ER 4C that allow to connect three conductors. Feed-through terminal assemblies are mounted into moulded insulation housing from material polyamide 66. Each terminal assembly consists of an electroplated copper current bar with a sliding clamping yokes and screws. When the screw is tightened, the yoke is compressed against the current bar and serrations incorporated in the surface prevent slippage of the conductor. Screws tightened down cause slight incurvation of clamping yoke, this is used to provide an automatic and progressive anti-rotation and anti-vibration locking effect. The terminals must by cliped onto a 35 mm assembly rail.

For technical parameters see Annex to IECEx FTZU 10.0024U Issue 1

SCHEDULE OF LIMITATIONS:

Service temperature: Tserv = -60°C to +85°C

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

1) Evaluation according to the new edition of the standards IEC 60079-7:2015 and IEC 60079-0:2011.

2) Terminal blocks technical parameters have been modified. See Annex to IECEx FTZU 10.0024U Issue 1

3) The service temperature range of the terminal blocks has been changed: Tserv = from -60°C to +85°C.

4) Updated the Schedule of Limitations.

5) Manufacturer address has been changed.

6) Terminal block type ERPE 16/35 is canceled.

Annex:

Annex_to_Certificate_IECEx_FTZU_10_0024U_Issue_No_1.pdf

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Attachment to Certificate of Conformity
IECEx FTZU 10.0024U issue No.: 1

Applicant: **IMO Precision Controls Ltd**

Address: **The Interchange, Frobischer Way**
Hatfield, Herfordshire, AL10 9TG
The United Kingdom

Ex component: **Range of rail mounted terminals types: ER *; ER *P; ER 4C; ERPE *; ERPE *P**

Technical parameters:

Type of rail mounted terminals	Max. rated voltage [V]	Max. current in case of max cross-section [A]	Cross-section of conductors [mm^2] solid / stranded
ER 2.5	630	20	0,5 ÷ 2,5
ER 4	630	27	0,5 ÷ 4
ER 6	630	36	0,5 ÷ 6
ER 10	630	50	1,5 ÷10
ER 16	630	63	2,5 ÷ 16
ER 35	630	106	10 ÷ 35
ER 50	800	133	16 ÷ 50
ER 70	750	156	16 ÷ 70
ER 95	1000	193	35 ÷ 95
ER 150	1000	249	50 ÷ 150
ER 240	1000	337	70 ÷ 240
ER 2.5 P	630	20	0,5 ÷ 2,5
ER 4 P	630	25	0,5 ÷ 4
ER 16 P	630	67	1,5 ÷ 16
ER 35 P	630	111	1,5 ÷ 35
ER 4 C	500	26	0,5 ÷ 4

- The range also includes seven sizes of earth terminals, types: ERPE 2.5/4, ERPE 6/10, ERPE 50, ERPE 2.5P, ERPE 4P, ERPE 16P, ERPE35P.
- Temperature rises in case of max. current and nominal cross section did not exceed 40K.
- Service temperature: Tserv = from -60°C to +85 °C

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