

The Low Voltage Directive (LVD) 2014/35/EU, Electromagnetic Compatibility (EMC) Directive 2014/30/EU, Directive 2014/34/EU on equipment and protective systems intended for use in potentially explosive atmospheres (ATEX) and Directive (RoHS) 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

a) The manufacturer

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b) The Products Covered by this Declaration

Isolating repeater

IRU-420

c) Product brief

The isolating repeater type IRU-420 is associated apparatus intended to be use for sensor supply with output 0/4 mA to 20 mA or 0 to 10 V.



d) The Basis on which Conformity is being Declared

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|--------------------------------|--|
| Intrinsic safety: | EN 60079-0:2012 EN 60079-11:2012 |
| Safety standard: | EN 61010-1 |
| Electromagnetic compatibility: | EN 55022-class B EN 61000-6-2 EN 61326-1 EN 61000-4-2 class A EN 61000-4-3 class A EN 61000-4-4 class A EN 61000-4-5 class A EN 61000-4-6 class A EN 61000-4-11 class A, B |

e) Details of accredited person

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|--|---|
| Intrinsic safety: | Notified Body No. NB 1026, FTZÚ (Physical-Technical Testing Institute), Pikartská 1337/7, 716 07 Ostrava-Radvanice, Czech Republic. EC-Type Examination Certificate No. FTZÚ 05 ATEX 0167X from 30.1. 2006 and Supplement No. 1 from 30.1. 2011. |
| Electromagnetic compatibility and safety standard: | Accredited testing laboratory No. 1004.3, Institute for testing and certification, a.s., Sokolovská 573, 686 01 Uherské Hradiště, Czech Republic, ID: 47910381. EMC protocol No. 3627/05 from 12.5. 2005, Safety standard protocol No. 3308/06 from 9.2. 2006. |

f) Special conditions for safe use

 **II (1)G [Ex ia] IIB/IIC** resp.  **II (M1) [Ex ia] I**, when applied in mining conditions the isolating transducers IRU-420-X must be installed in non-hazardous area or must be installed inside of flameproof enclosure "d".

Maximum parameters of input/output circuits:

| | |
|------------------|--|
| Terminals (5-6): | $U_o = 27.3 \text{ V}$; $I_o = 93 \text{ mA}$; $P_o = 0.64 \text{ W}$; $C_o = 86 \text{ nF}$; $L_o = 2 \text{ mH}$ (for IIC) $U_o = 27.3 \text{ V}$; $I_o = 93 \text{ mA}$; $P_o = 0.64 \text{ W}$; $C_o = 0.68 \text{ }\mu\text{F}$; $L_o = 8 \text{ mH}$ (for IIB) $U_o = 27.3 \text{ V}$; $I_o = 93 \text{ mA}$; $P_o = 0.64 \text{ W}$; $C_o = 1.0 \text{ }\mu\text{F}$; $L_o = 10 \text{ mH}$ (for I) |
| Terminals (6-7): | $U_i = 28 \text{ V}$; $I_i = 93 \text{ mA}$; $P_i = 0.8 \text{ W}$; $C_i \approx 0$; $L_i \approx 0$ |

g) Ensure production quality

Manufacturer's quality management system was found conform with the requirements of EN ISO 9001: 2015. The company is holder of the certificate of quality management system, reg. number CQS 2270/2018 dated 06.12.2018 and valid until 12.10.2021, issued by certification body CQS (IQNet). The certificate is valid for the development, manufacture and sales of electronic components and systems for measurement, control and industrial automation.

For products in potentially explosive atmospheres are to quality management system according to ISO 9001 applied special requirements according to EN ISO/IEC 80079-34:2011. The manufacturer got QUALITY ASSURANCE NOTIFICATION No. "FTZÚ 02 ATEX Q 016", issued by the Notified Body NB 1026 FTZÚ Ostrava-Radvanice. The notification is issued for protective systems intended for use in potentially explosive atmospheres acc. to Directive 2014/34/EU. The notice applies to a group of products with the type of explosion protection – Intrinsic safety "i" Protection with enclosure "t" and was issued on the basis of the audit protocol No. FTZÚ 02/ATEX/016 issued on 13.06.2017 and valid until 30.06.2020.

h) Manufacturer confirmation

The manufacturer identified in paragraph a) of this statement confirms that the properties of the product identified in point b) and c) of this declaration, meet the requirements, concretized in European technical standards identified in paragraph d) of this statement.

The product is under manufacturer's intended use safe. The manufacturer confirms that he has taken actions to ensure conformity of all products put on the market with technical documentation and the basic requirements.

Issued in Zlín, on 13.12.2018



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