

The Low Voltage Directive (LVD) 2006/95/EC, Electromagnetic Compatibility (EMC) Directive 2004/108/EC and Directive 94/9/EC on equipment and protective systems intended for use in potentially explosive atmospheres (ATEX).

a) The manufacturer

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b) The Products Covered by this Declaration

Ultrasonic level sensor

ULS-53Xi-_-_-S-_-_-

c) Product brief

Ultrasonic level sensor ULS-53Xi-_-_-S-_-_- is intended for non-contact level detection of liquids and bulk-solid materials.

d) The Basis on which Conformity is being Declared

Intrinsic safety: EN 60079-0:2007
EN 60079-11:2007
EN 60079-26:2007

Electromagnetic compatibility: EN 55011-class B
EN 61326-1 industrial areas
EN 61000-4-2 class A
EN 61000-4-3 class A
EN 61000-4-4 class B
EN 61000-4-5 class A
EN 61000-4-6 class A

e) Details of accredited person



Intrinsic safety:

Notified Body No. NB 1026, FTZÚ (Physical-Technical Testing Institute), Pikartská 7, 716 07 Ostrava-Radvanice, Czech Republic, ID: 00577880.
EC-Type Examination Certificate No. FTZÚ 09 ATEX 0119X ze dne 26.2. 2010 and Supplement No. 1 from 25.5.2015.

Electromagnetic compatibility:

Accredited testing laboratory No. 1004.3, Institut pro testování a certifikaci, a.s., divize 4 Elektro, Sokolovská 573, 686 01 Uherské Hradiště, Czech Republic, ID: 47910381.
EMC protocol No. 3630/09 from 15.4. 2009.

f) Special conditions for safe use

 **Ex II 1/2G Ex ia IIB/IIA T5 Ga/Gb** resp.  **Ex II 2G Ex ia IIA T5 Gb**, the device is designed for connection to the isolating repeater IRU-420. When the other approved supply unit is used, whose output parameters satisfy above mentioned output parameters, it is necessary to have a galvanic separation or, if supply unit without galvanic separation is used (Zener barriers), it is necessary provide potential equalization between sensor and point of barrier earthing.

For application in zone 0 the present explosive atmospheres - mixture of air with flammable gases, vapour or mists must comply:
- 20°C < Ta < + 60°C; 0.8 bar < p < 1.1 bar.

The device must be installed in such a way, to prevent mechanical damage of sensor face.

Maximum input parameters:

$U_i = 30 \text{ V}$; $I_i = 132 \text{ mA}$; $P_i = 0.99 \text{ W}$; $C_i = 370 \text{ nF}$; $L_i = 0.9 \text{ mH}$

g) Ensure production quality

Manufacturer's quality management system was found conform with the requirements of ISO 9001: 2008. The company is holder of the certificate of quality management system, reg. number CZ – 2256/2012 dated 13.10.2015 and valid until 15.9.2018, 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 13980:2004. 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 94/9/EC. 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 12.06.2014 and valid until 30.06.2017.

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 11.1.2016



Ing. Dalibor Štverka, Ph.D.
General manager