

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

#### Capacitive level transducer

DLS-27Xi (XiT, XiM, XiMT)

### c) Product brief

The capacitive level transducer type DLS-27 is designed to bistable level indication in tanks or containers. It allows level sensing and indication of electric conductive and non-conductive liquids, bulky materials, granulate and grain.

### d) The Basis on which Conformity is being Declared

Intrinsic safety: EN 60079-0:2012+A11:2013  
EN 60079-11:2012

Electromagnetic compatibility: EN 55022-class B  
EN 61326-1  
EN 61000-4-2  
EN 61000-4-3  
EN 61000-4-4  
EN 61000-4-5  
EN 61000-4-6

### e) Details of accredited person

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 02 ATEX 0234X from 8.10. 2002, Supplement No. 1 from 9.2. 2004, supplement No. 2 from 15.8. 2007, supplement No. 3 from 15.8. 2012 and Supplement No. 4 from 03.8. 2017.

Electromagnetic compatibility:

Accredited testing laboratory No. 1032, Mesit QM, spol. s.r.o., Sokolovská 573, 686 01 Uherské Hradiště, Czech Republic, ID: 47910381.  
EMC protocol No. 3665/0 from 11.12. 2000.

### f) Special conditions for safe use

**Ex II 1G Ex ia IIB T6 Ga, Ex II 1D Ex ia IIIC T76°C Da, Ex II 1/2G Ex ia IIB T6 Ga/Gb, Ex II 1/2D Ex ia IIIC T76°C Da/Db, Ex I M2 Ex ia I Mb.**

If the apparatus is used as device of Group II and with using of an approved power supply device, which output parameters comply with required input parameters, it is necessary to have an galvanic separation or in case of apparatus without galvanic separation (Zener barriers) it is necessary to provide equipotential equalizing between sensor and barrier earthing point.

If the apparatus is used in coal mine as device of Group I and with using of an approved power supply device, which output parameters comply with required input parameters it is necessary to have an galvanic separation.

When used in zone 0 the present explosive atmosphere of air mixture and gases, vapours of mists must be comply with:  
 $20^{\circ}\text{C} \leq T_{\text{amb}} \leq 60^{\circ}\text{C}$ ;  $0.8 \text{ bar} \leq p \leq 1.1 \text{ bar}$ .

Design DLS-27Xi can be used in zone 0 or zone 20. With design DLS-27XiT can be used in zone 0 and zone 20 only electrode part head with electronics can be used only in zone 1 or zone 21.

Ambient temperature:  $T_{\text{amb}} = -20^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$

Temperature of measured medium according to design variant: Xi, XiM:  $(-20^{\circ}\text{C}$  to  $+85^{\circ}\text{C})$   
XiT, XiMT: for types 10, 11, 20, 30  $(-30^{\circ}\text{C}$  to  $+200^{\circ}\text{C})$   
XiT, XiMT: for types 21, 22, 31, 40  $(-30^{\circ}\text{C}$  to  $+120^{\circ}\text{C})$

Maximum temperature of electrodes is equal to temperature of measured medium. For design DLS-27XiMT it is necessary to observe that temperature of any surface of apparatus, when coal dust can from a layer, do not exceed  $150^{\circ}\text{C}$ .

Maximum input parameters:

$U_i = 12 \text{ V}$ ;  $I_i = 15 \text{ mA}$ ;  $P_i = 45 \text{ mW}$ ;  $C_i = 15 \text{ nF}$ ;  $L_i = 10 \text{ }\mu\text{H}$

#### **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



Ing. Dalibor Štverka, Ph.D.  
*General manager*