

The Low Voltage Directive (LVD) 2014/35/EU, Electromagnetic Compatibility (EMC) Directive 2014/30/EU and Directive 2014/34/EU 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

Capacitive level sensor

CLS-23Xi

c) Product brief

Capacitive level sensor CLS-23Xi is intended for sensing various types liquids.

d) The Basis on which Conformity is being Declared

Intrinsic safety: EN 60079-0:2013+A11:2014
EN 60079-11:2012

Electromagnetic compatibility: EN 55011-class B
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

e) Details of accredited person

Intrinsic safety:

Notified Body No. NB 1026, FTZÚ (Physical-Technical Testing Institute), Pikartská 1337/7, 716 07 Ostrava-Radvanice.
EC-Type Examination Certificate No.FTZÚ 12 ATEX 0106X from 27.10.2017.

Electromagnetic compatibility:

Accredited testing laboratory No. 1004.3, ITC, Sokolovská 573, 686 01 Uherské Hradiště, Czech Republic.
EMC protocol No. 3673/10 from 6. 10. 2010.

f) Special conditions for safe use

Version CLS-23Xi-10 (30), CLS-23XiT-10 (30):  II 1/2G Ex ia IIC T6 Ga/Gb

Version CLS-23Xi-11 (12, 20, 21):  II 1G Ex ia IIB T6 Ga

Version CLS-23XiT-11 (12, 20, 21):  II 1/2G Ex ia IIB T6 Ga/Gb

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.

Design CLS-23Xi-11 (12, 20, 21) can be used in zone 0. With other design apparatus can be used in zone 0 only electrode part and head with electronics can be used only in zone 1.

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

Temperature of measured medium according to design variant: Xi type 10, 12: -25°C to $+105^{\circ}\text{C}$
Xi type 11: -10°C to $+105^{\circ}\text{C}$
Xi type 20, 21, 30, XiT: -30°C to $+150^{\circ}\text{C}$

Maximum temperature of electrodes is equal to temperature of measured medium.

Intrinsically safe parameters:

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

g) Ensure production quality

Manufacturer's quality management system was found conform with the requirements of 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 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 29.10.2017



Ing. Dalibor Štverka, Ph.D.
General manager