

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

DLS-35Xi(XiT, XiM, XiMT)

c) Product brief

The capacitive level sensor type DLS-35Xi(XiT, XiM, XiMT) 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 60079-0:2013
EN 60079-11:2012
EN 50303:2001

Electromagnetic compatibility: EN 61326-1
EN 55011
EN 61000-4-2 class A
EN 61000-4-3 class A
EN 61000-4-4 class B
EN 61000-4-5 class B
EN 61000-4-6 class A
EN 61000-4-8 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 16 ATEX 0140X ze dne 01.03.2017.

Electromagnetic compatibility:

Accredited testing laboratory No. 1004.3, ITC, Sokolovská 573, 686 01 Uherské Hradiště, Czech Republic.
EMC protocol No. 414102770AE1 from 10. 3. 2015.

f) Special conditions for safe use

Version DLS-35Xi: II 1G Ex ia IIB T6 Ga, II 1D Ex ia IIIC T80°C Da
Version DLS-35XiT: II 1/2G Ex ia IIB T6 Ga/Gb, II 1/2D Ex ia IIIC T80°C Da/Db
Version DLS-35XiM (XiMT): I M1 Ex ia I Ma

Connected intrinsically safe apparatus must be galvanically separated or in the case of using the apparatus without galvanic separation (Zener barrier) it is necessary to carry out the equalization of potentials between transducer and the palce of barriers. The version DLS-35Xi can be placed into Zone 0 or Zone 20. For the implementation DLS-35XiT the only sensing electrode can be placed into Zone 0 or Zone 20, the head with electronics can by placed only into Zone 1 or Zone 21. The maximal temperature sensing electrodes is given by temperature of measured material. For the implementation DLS-35XiMT must be observed that the temperature of any surface, where coal dust can form a layer, does not exceed 150°C.

Intrinsically safe parameters:

Ui = 12 VDC, li = 15 mA, Pi=45 mW, Li = 10 µH, Ci = 15 nF

Ambient temperature:

-40°C ≤ Ta ≤ + 75°C

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 04.07.2017



Ing. Dalibor Štverka, Ph.D.
General manager