

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

Dinel, s.r.o.
U Tescomy 249
760 01 Zlín, Czech Republic

ID: 63476886
VAT: CZ63476886
web: www.dinel.cz

Tel.: +420 577 002 001
E-mail: dinel@dinel.cz

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 IEC 60079-0:2018
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, Czech Republic.
EC-Type Examination Certificate No.FTZÚ 12 ATEX 0106X from 28. 11. 2012, Supplements No. 1 from 27.
10. 2017 and Supplements No. 2 from 26. 8. 2022.

Electromagnetic compatibility:

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. 3673/10 from 6. 10. 2010.

f) Special conditions for safe use

Version CLS-23Xi-10 (30), CLS-23XiIT-10 (30): II 1/2G Ex ia IIC T6...T3 Ga/Gb
Version CLS-23Xi-11 (12, 20, 21): II 1G Ex ia IIB T6...T3 Ga
Version CLS-23XiIT-12 (20, 21): II 1/2G Ex ia IIB T6...T3 Ga/Gb

If the apparatus is used with an approved power supply device, which output parameters comply with required input parameters, it is necessary to have a 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.

Variant CLS-23Xi-11 (12, 20, 21) can be used in zone 0. For other variants only electrode part can be used in zone 0, head part with electronics can be used only in zone 1.

Temperature class (T6...T3) depends on the process media temperature (Tm):

Process media temperature (Tm) range in relation to electrode type:

Variants CLS-23Xi:

| | |
|------------------------|-----------------------|
| Electrode types 10, 12 | -25 °C ≤ Tm ≤ +105 °C |
| Type 11 | -10 °C ≤ Tm ≤ +105 °C |
| Types 20, 21, 30 | -30 °C ≤ Tm ≤ +150 °C |

Variants CLS-23XiIT:

| | |
|--------------------------|-----------------------|
| Types 10, 12, 20, 21, 30 | -30 °C ≤ Tm ≤ +150 °C |
|--------------------------|-----------------------|

Temperature class for respective maximal process media temperature (T_{m_max}):

T3 ... pro $T_{m_max} = 150$ °C.

T4 ... pro $T_{m_max} = 125$ °C.

T5 ... pro $T_{m_max} = 90$ °C.

T6 ... pro $T_{m_max} = 75$ °C

Technical parameters:

Ambient temperature for head part of the product:

CLS-23-Xi-11: -10 °C $\leq T_a \leq +75$ °C

All other variants: -20 °C $\leq T_a \leq +75$ °C

Ambient temperature of sensor part of product: T_m - measured process media temperature, see specific condition.

Intrinsically safe parameters::

Powel supply: $U_i = 12$ V; $I_i = 15$ mA; $P_i = 45$ mW; $C_i = 180$ nF; $L_i = 10$ μ H

g) Ensure production quality

Manufacturer's quality management system was found conform with the requirements of EN ISO 9001: 2016. The company is holder of the certificate of quality management system, reg. number CQS 2201/2021 dated 13.10.2021 and valid until 12. 10. 2024, 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 80079-34:2020. 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/ATEXQ/016 issued on 18. 06. 2020 and valid until 30. 06. 2023.

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 28. 08. 2022



Ing. Dalibor Štverka, Ph.D.
General manager