

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

Float system

FS-4

c) Product brief

FS-4 Petroleum leakage float system is intended for detection of leakage of petroleum and petroleum products in trap or protection reservoirs. It consists of two guiding rods and a float on which CPS-24Xi-C-RO sensor and NSSU-811 spark resistant assessment unit are installed.

d) The Basis on which Conformity is being Declared

Intrinsic safety: EN IEC 60079-0:2018
EN 60079-0:2012 + A11:2013
EN 60079-11:2012

Safety standard: EN 61010-1

Electromagnetic compatibility: EN 55022-class B
EN 61326-1
EN 61000-6-2
EN 61000-4-2 Criterion A
EN 61000-4-3 Criterion A
EN 61000-4-4 Criterion A
EN 61000-4-5 Criterion A
EN 61000-4-6 Criterion A
EN 61000-4-11 Criterion A, B

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 0233X from 21. 8. 2002, Supplement No. 1 from 30. 3. 2006,
supplement No. 2 from 16. 8. 2007, supplement No. 3 from 16. 8. 2012 and Supplement No. 4 from 03. 8. 2017.

EC-Type Examination Certificate No. FTZÚ 04 ATEX 0136X from 21.9.2004, Supplement No. 1
from 27. 10. 2009, Supplement No. 2 from 23. 4. 2010, Supplement No. 3 from 27. 10. 2014. and Supplement No. 4 from
25. 10. 2019.


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. 3655/01 from 1. 8. 2001.
EMC protocol No. 3670/04 from 21. 5. 2004.

f) Special conditions for safe use

CPS-24Xi-C-RO

 II 1G Ex ia IIC T6 Ga, the apparatus is designed to be connected with supply unit type NSSU, NDSU and NLCU. If some other approved apparatus is used, its output parameters comply with above mentioned parameters, then it is necessary to include galvanic separation and/or in case of application of apparatus without galvanic separation (Zener safety barriers) it is necessary to provide equipotential equalisation between sensor and point of barrier earthing.

For zone 0 application the present potentially explosive atmosphere of air mixture with gases, mists or vapours shall comply the following:

$T_{amb} = -20$ to $+60^{\circ}\text{C}$, $p = 0.8$ bar to 1.1 bar.

Maximum input parameters:

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

NSSU-811

⚠ II (1)G [Ex ia Ga] IIC resp. ⚠ II (1)D [Ex ia Da] IIIC resp. ⚠ I (M1) [Ex ia Ma] I, when use in mining conditions the units NxxU–8xx must be placed in non-hazardous areas or must be placed inside of the flameproof enclosure “d”.

Maximum parameters of input intrinsic safe circuits:

$U_o = 10.5 \text{ V}$; $I_o = 10.4 \text{ mA}$; $P_o = 27.3 \text{ mW}$; $L_o = 150 \text{ mH}$; $C_o = 1.8 \text{ }\mu\text{F}$; $U_m = 253 \text{ V}$

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 26. 10. 2021



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