



EU - Type Examination Certificate

- (1)
(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 16 ATEX 0140X

- (4) Product: **Capacitive Level Sensor type DLS-35Xi (XiT, XiM, XiMT)**
(5) Manufacturer: **Dinel, s.r.o.**
(6) Address: **U Tescomy 249, 760 01 Zlín, Czech Republic**
(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report number:

16/0140 dated 01.03.2017

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012, EN 60079-11:2012, EN 50303:2000
(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.
(11) This certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
(12) The marking of the product shall include the following:

II 1G Ex ia IIB T6 Ga



II 1D Ex ia IIIC T80°C Da

version Xi



II 1/2G Ex ia IIB T6 Ga/Gb

II 1/2D Ex ia IIIC T80°C Da/Db


version XiT

I M1 Ex ia I Ma

version XiM, XiMT

This certificate is valid till: **01.03.2022**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 01.03.2017

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Physical-Technical Testing Institute
Ostrava - Radvanice

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Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 16 ATEX 0140X**

(15) Description of Product:

The product Capacitive Level Sensor type DLS-35Xi (XiM, XiT, XiMT) is designed to limit sensing of level of liquids, loose substances in storage tanks, containers, etc. It contains of steel enclosure with electronic and sensing electrode. The level of surface is convert to current signal NAMUR (<1mA, >2,2mA). The level sensors are producing in some modification of sensing electrodes, bars or cables, with insulated electrode or non-insulated electrode, with connection by solid cable with plastic or metallic glands or with connection by connector. All versions are produced in modification for high processing temperature marked DLS-35XiT (XiMT). There are several types with different procedural connection (metric pipe thread, pressure thread NPT).

Intrinsically safe parameters:

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

Ambient temperature: $-40^\circ\text{C} \leq T_a \leq +75^\circ\text{C}$

(16) Report Number.: 16/0140

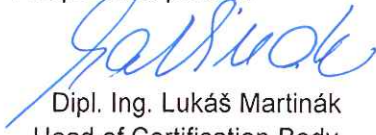
(17) Specific Conditions of Use:

1. 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 place of barriers.
2. 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 be placed only into Zone 1 or Zone 21. The maximal temperature sensing electrodes is given by temperature of measured material.
3. 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 .

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



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(14) **EU - Type Examination Certificate No. FTZÚ 16 ATEX 0140X**

(19) Drawings and Documents:

Number:	Sheets:	Date:	Description:
DLx-35	11	05.2015	Production Documentation
DLx-35	18	05.2016	Technical Conditions
DLS-35	28	05.2016	User Manual
DLx-35-SV-01	1	04.03.2016	List of Drawings
DLS-35-100	1	22.07.16	Set DLS-35_-10
DLS-35-130	1	22.07.16	Set DLS-35_-11
DLS-35-150	1	22.07.16	Set DLS-35_-13
DLX-35-230	1	22.07.16	Set DL_-35_-20, 21, 22
DLX-35-250	1	22.07.16	Set DL_-35_-23, 25
DLX-35-300	1	22.07.16	Set DL_-35_-30
DLX-35-330	1	22.07.16	Set DL_-35_-31
DLX-35-400	1	22.07.16	Set DL_-35_-40
DLX-35-450	1	22.07.16	Set DL_-35_-41
DLX-35-480	1	22.07.16	Set DL_-35_-43, 45
DLX-35-500	1	22.07.16	Set DL_-35_-50
DLX-35-900	1	22.07.16	Set DL_-35_T

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