



(1) **Supplementary EU - Type Examination Certificate No.2**

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

(3) EU - Type Examination Certificate number:

FTZÚ 10 ATEX 0092X

(4) Product: **Capacitive Level sensor DLS-27Xd-__-D-__-__**

(5) Manufacturer: **Dinel, s.r.o.**

(6) Address: **U Tescomy 249, 760 01 Zlín, The Czech Republic**

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 10 ATEX 0092X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached 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, as modified by this supplementary certificate, 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.

(9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

(10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-11:2012, EN 60079-31:2014

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) The marking of the product shall include the following:

Ex II 1/2D Ex ia/tb [ia] IIIC T78°C Da/Db

(12) This certificate is valid till: **31.01.2027**

Responsible person:

V. z. Sgar

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 24.01.2022

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 2
to FTZÚ 10 ATEX 0092X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Evaluation according to the newest standards.
- Extension of certificate validity.

This supplementary certificate describes the prolongation of certificate validity and evaluation of product according actual valid standards. The product was not modified. Technical parameters remain unchanged. Validity of certificate was extended for next five years. The list of actualized documents is listed in clause (19).

Technical parameters:

Supply voltage: 7 ... 33V /DC
Current supply (state OFF / ON): 3 /10 mA
Switching current (NPN, PNP output): 200 mA
Degree of IP protection: IP 67

(16) Report Number: 10/0092/2

(17) Specific Conditions of Use:

1. Ambient temperature range: $-20^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
2. The sensor is designed with permanent cable. The cable must be terminated in connection box with degree of protection IP 6X.
3. The cover of sensor shall be protected from daylight.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

Number	Sheets	Date	Description
-	28	03.2021	User's manual

Responsible person:

v z. Jgan

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 24.01.2022

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This certificate may only be reproduced in its entirety and without any change, schedule included.



(1) **Supplementary EU - Type Examination Certificate No.1**

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

(3) EU - Type Examination Certificate number:

FTZÚ 10 ATEX 0092X

(4) Product: **Capacitive Level sensor DLS-27Xd-__-D-__-__**

(5) Manufacturer: **Dinel, s.r.o.**

(6) Address: **U Tescomy 249, 760 01 Zlín, Czech Republic**

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 10 ATEX 0092X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached 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, as modified by this supplementary certificate, 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.

(9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

(10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012, EN 60079-11:2012, EN 60079-31:2014

(11) The marking of the product shall include the following:

 **II 1/2D Ex ia/tb [ia] IIIC T78°C Da/Db**

(12) This certificate is valid till: **30.06.2021**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 30.06.2016

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13) **Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 1
to FTZÚ 10 ATEX 0092X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus;
- Evaluation according to the newest standards;
- Prolongation of certificate validity.

This supplementary certificate modifies the change of electronic equipment situated inside of enclosure and the marking of product.

Design of the enclosure and used electrodes are without changes.

The product is recertified according to standards EN 60079-0:2012, EN 60079-11:2012 and EN 60079-31:2014.

Electrical parameters:

Supply Voltage:	7 ... 33 V DC
Current supply (state OFF / ON):	3 /10 mA
Switching current (NPN, PNP output):	200 mA
Degree of IP protection:	IP 67

(16) Report Number.: 10/0092/1

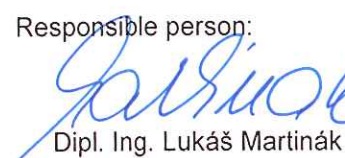
(17) Specific Conditions of Use:

1. Ambient temperature range: $-20^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$.
2. The sensor is designed with permanent cable. The cable must be terminated in connection box with degree of protection IP 6X.
3. The cover shell be protected from daylight.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 30.06.2016

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

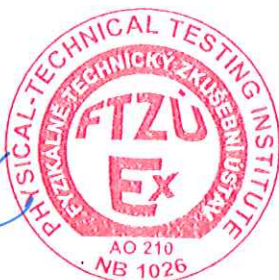
(14) **Supplementary EU - Type Examination Certificate No. 1
to FTZÚ 10 ATEX 0092X**

(19) Drawings and Documents:

Number	Sheets	Date	Description
	16	05/2016	Technical conditions
	23	05/2016	User manual
DLS-27-SZ-02		02.05.2016	Drawing
DLS-27-SZ-03		02.05.2016	Drawing
DLS-27-OS-03		02.05.2016	Drawing
DLS-27-OS-04		02.05.2016	Drawing
DLS-27-OS-05		02.05.2016	Drawing
DLS-27-OS-06		02.05.2016	Drawing
DLS-27-HP-03		02.05.2016	Drawing
DLS-27-HP-04		02.05.2016	Drawing
DLS-27-HP-05		02.05.2016	Drawing
DLS-27-HP-06		02.05.2016	Drawing
DLS-27-MO-03		02.05.2016	Drawing
DLS-27-MO-04		02.05.2016	Drawing
DLS-27-MO-05		02.05.2016	Drawing
DLS-27-MO-06		02.05.2016	Drawing
DLS-27-SS-02		02.05.2016	Drawing
DLS-27-SS-03		02.05.2016	Drawing
DLS-27-OD-02		02.05.2016	Drawing
DLS-27.0b		10.03.2016	Drawing

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 30.06.2016

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EC-Type Examination Certificate

- (1)
(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 10 ATEX 0092X

(4) Equipment or protective system: **Capacitive Level Switch DLS – 27Xd-__-D-__-__**

(5) Manufacturer: **DINEL, s.r.o.**

(6) Address: **U Tescomy 249, 760 01 Zlín - Přiluky, Czech Republic**

- (7) This equipment or protective system and any of 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 Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.


The examination and test results are recorded in confidential Report N°

10/0092 dated 21.04.2010

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 60079-0 : 2006; EN 61241-0 : 2006; ČSN EN 61241-1 : 2004

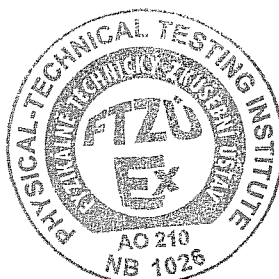
- (10) If the sign „X” is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- (12) The marking of the equipment or protective system shall include following:

 **II 1D Ex tD A20 T 77°C IP 6X**

This EC-Type Examination Certificate is valid till: **22. 04. 2015**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 22.04.2010

Number of pages: 3
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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 10 ATEX 0092X**

(15) Description of Equipment or Protective System:

Capacitive level switch DLS - 27Xd is an electrical apparatus intended to be used in area where combustible dust is present. It is manufactured in two basic electrical variants –with input transistor of open collector type NPN or PNP. The measuring electrodes than may have seven various modification and different length. It is based the certified model DLS-27Xc, the design and electronics remain identical. The original cable gland was replaced by the certified model SKINTOP MS-M-12x1,5 ATEX suitable even for 1D category.

(16)*Report No.: 10/0092 (7 pages)

Special conditions for safe use:

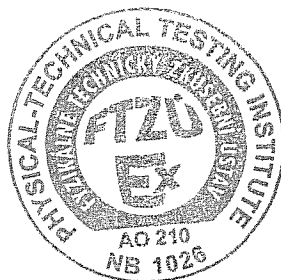
The sensor is designed with permanent cable. The cable must be terminated in connection box with degree of protection IP 6X.

(18) Essential Health and Safety Requirements:

Essential health and safety requirements of Directive 94/9/EC are covered by standards mentioned in (9), according which the product was verified and in manufacturer's instruction for use.

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 22.04.2010

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Physical Technical Testing Institute
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Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 10 ATEX 0092X**

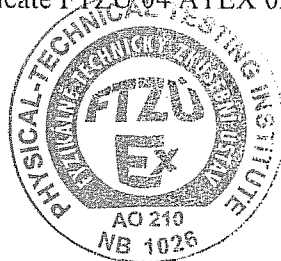
(19)

LIST OF DOCUMENTATION

1. Technical condition DLS-27 (16 pages) 12/2009
2. Manufacturer's documentation DLS-27Xd (3 pages) 12/2009
3. Drawings:
 - Annex 1: Wiring diagram DLS-27Xd type N
 - Annex 2: Bedding diagram DLS-27Xd type N (component side)
 - Annex 3: Bedding diagram DLS-27Xd type N (track side)
 - Annex 4: Bedding diagram DLS-27Xd type N with component values (component side)
 - Annex 5: Bedding diagram DLS-27Xd type N with component values (track side)
 - Annex 6: Conductor layout of printed circuit DLS-27Xd type N
 - Annex 7: List of components DLS-27Xd type N
 - Annex 8: Wiring diagram DLS-27Xd type P
 - Annex 9: Bedding diagram DLS-27Xd type P (component side)
 - Annex 10: Bedding diagram DLS-27Xd type PN (track side)
 - Annex 11: Bedding diagram DLS-27Xd type P with component values (component side)
 - Annex 12: Bedding diagram DLS-27Xd type P with component values (track side)
 - Annex 13: Conductor layout of printed circuit DLS-27Xd type P (component and track side)
 - Annex 14: List of component DLS-27Xd type P
 - Annex 15: Content of marking plate of level switch DLS-27XdAll Annexes are verified dated 21.04.2010.
4. Drawings documentation listings: DLS-27.0b 21.12.2009
DLS-27.1.40 12.06.2009
DLS-27.0 11.07.2002
5. EC-Type Examination Certificate FTZÚ 04 ATEX 0238X+documen. (3 sheets) 24.08.2004

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 22.04.2010

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