



## 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 24 ATEX 0021X**

(4) Product: **Electromechanical pressure switch 20D**

(5) Manufacturer: **IMI International s.r.o.**

(6) Address: **Evropská 852, 664 42 Modřice, 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:

**24/0021 dated 25.10.2024**

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

**EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-7:2015+A1:2018,  
EN 60079-31:2014**

(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 2G Ex db eb IIC T6 Gb**

 **II 2D Ex tb IIC T80°C Db**

This certificate is valid till: **31.10.2029**

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 25.10.2024

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Physical-Technical Testing Institute  
Ostrava - Radvanice

(13)

Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 24 ATEX 0021X**

(15) Description of Product:

Electromechanical pressure switch is intended for switching on and off of the electrical circuit. Switching on and off is induced by pressure of the liquid or gaseous media.

Electromechanical pressure switch consists of the metallic enclosure and pressure sensor.

There is separately certified threaded cable gland and pressure sensor mounted outside and separately certified terminal block, separately certified micro switch and mechanical device mounted inside the enclosure. Enclosure itself consists of body of the enclosure and sealed lid and it is made from anodized aluminium alloy.

Metallic enclosure and separately certified cable glands secures "eb" and "tb" Ex protection.

Separately certified terminal block secures Ex "eb" protection.

Separately certified micro switch is protected by Ex "db" protection.

Mechanical device consist of springs, screws and rocker. Mechanical device transmits impulse from pressure sensor to separately certified micro switch.

Pressure sensors consists of metallic body, metallic or non-metallic membrane and plunger. Pressure sensors are mounted to the wall of enclosure by additionally sealed thread. There are four types of pressure sensors.

Rated parameters for DC:

Rated voltage	Rated current - Resistive load	Rated current - Inductive load
30 V	7 A	5 A
250 V	0.4 A	0.03 A

Rated parameters for AC:

Rated voltage	Rated current - Resistive load	Rated current - Inductive load
30 V	7 A	5 A
250 V	5 A	3 A

(16) Report Number: 24/0021

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 25.10.2024

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**Physical-Technical Testing Institute  
Ostrava - Radvanice**

(13)

**Schedule**

(14) **EU - Type Examination Certificate No. FTZÚ 24 ATEX 0021X**

(17) Specific Conditions of Use:

1. Product must not be exposed to effective sources of electrostatic charging in explosive dust atmospheres.
2. Product must not switch on and off higher current values than those which are given as maximum values intended for specific voltage, type of switched load and type of switched circuit. See the Operation Manual.
3. The user of the product shall provide strain relief of the cable gland. Only permanently wired cables may be entered.

(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.

(19) Drawings and Documents:

Number	Revision	Date	Description
02.7503478000000050	-	02/24	Operation manual
0523644000000000	F	16.10.2024	Drawing
SPCZ90007765	B	16.10.2024	Drawing
SPCZ90007766	B	16.10.2024	Drawing
0573066000000000	I	14.09.2001	Drawing
0573668	F	24.10.1996	Drawing
0575379000000000	B	30.06.2004	Drawing
0701270000000000	B	26.06.2004	Drawing
0575769	F	21.11.1996	Drawing
0524178000000000	A	23.02.2011	Drawing
0524179000000000	A	31.05.2011	Drawing
0575379000000000	B	30.06.2004	Drawing
0655262000000000	C	05.04.2005	Drawing
0523589000000000	C	11.01.2006	Drawing
0575379000000000	B	30.06.2004	Drawing
0552256000000000	E	08.04.2004	Drawing
0575379000000000	B	30.06.2004	Drawing
0575795	D	22.02.1994	Drawing
0664442	A	29.06.1989	Drawing
0701618000000000	C	21.05.2007	Drawing

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