



Physical-Technical Testing Institute
Ostrava - Radvanice



(1) **Supplementary EU - Type Examination Certificate No.3**

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

(3) EU - Type Examination Certificate number:

FTZÚ 17 ATEX 0105X

(4) Product: **Limit Switch Box type SRBC-Cx-xx-N-20N-ZC-C2x-EX6
Limit Switch Box type SRBC-Cx-xx-MW-1-1WG-C2x-EX6**

(5) Manufacturer: **Festo SE & Co. KG**

(6) Address: **Ruiter Straße 82, 73734 Esslingen, Germany**

(7) This supplementary certificate extends EU - Type Examination Certificate No. FTZÚ 17 ATEX 0105X 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) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

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

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

 **II 1G Ex ia IIC T6...T1 Ga**

 **II 1D Ex ia IIIC Txx°C Da**

(12) This certificate is valid till: **31.03.2029**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



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Schedule

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(14) **Supplementary EU - Type Examination Certificate No. 3
to FTZÚ 17 ATEX 0105X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of parameters of certified apparatus;
- Extension of certificate validity.

The product Limit Switch Box is designed for switching according to angle of sensing spindle.
Construction remain without changes.

Technical parameters (modified)

The product Limit Switch Box SRBC-Cx-xx-N-20N-ZC-C2x-EX6 is equipped by inductive/proximity sensors.

Intrinsically safe parameters:

Minimal ambient temperature: Tamin = -20°C

Li = 100μH, Ci = 100nF

Gas atmosphere	Maximal Input parameters			Tamax [°C] = Maximal permissible ambient temperature for application in Temperature Class			
Category	Ui [V]	Ii [mA]	Pi [mW]	T6	T5	T4-T1	
1G/2G ^{*)}	16	25	34	73	80	80	
1G/2G ^{*)}	16	25	64	66	80	80	
1G/2G ^{*)}	16	52	169	45	60	80	
1G/2G ^{*)}	16	76	242	30	45	74	
Dust atmosphere	Maximal Input parameters			Ts [°C] = Maximal surface temperature for application in Ambient Temperature			
Category	Ui [V]	Ii [mA]	Pi [mW]	Ta = 40°C	Ta = 60°C	Ta = 70°C	Ta = 80°C
1D	16	25	34	42	62	72	82
1D	16	25	64	43	63	73	83
1D	16	52	169	49	69	79	89

^{*)} Parameters are identical for Category 1G and 2G

Maximal ambient temperature: Tamax = 80°C ^{*)}

^{*)} Depends on Temperature Class and input power, see table above

Degree of protection by enclosure: IP67

Responsible person:


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Head of Certification Body



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(14) **Supplementary EU - Type Examination Certificate No. 3
to FTZÚ 17 ATEX 0105X**

(15) Description of the variation to the Product (continuing):

The product Limit Switch Box SRBC-Cx-xx-MW-1-1WG-C2x-EX6 is equipped by mechanical switches.

Intrinsically safe parameters:

Minimal ambient temperature: $T_{amin} = -40^{\circ}\text{C}$

$U_i = 30\text{ V}$, $I_i = 0.1\text{ A}$, $P_i = 1\text{ W}$, $L_i = \text{negligible}$, $C_i = \text{negligible}$

Gas atmosphere	Maximal Input parameters			$T_{amax} [^{\circ}\text{C}]$ = Maximal permissible ambient temperature for application in Temperature Class		
Category	$U_i [\text{V}]$	$I_i [\text{mA}]$	$P_i [\text{W}]$	T6	T5	T4-T1
1G/2G ^{*)}	30	100	1	80	80	80
Dust atmosphere	Maximal Input parameters			$T_s [^{\circ}\text{C}]$ = Maximal surface temperature for application in Ambient Temperature		
Category	$U_i [\text{V}]$	$I_i [\text{mA}]$	$P_i [\text{W}]$	$T_a = 70^{\circ}\text{C}$		$T_a = 80^{\circ}\text{C}$
1D/2D ^{*)}	30	100	1	$T_s = T_a$		$T_s = T_a$

^{*)} Parameters are identical for Category 1G and 2G, 1D and 2D

Maximal ambient temperature: $T_{amax} = 80^{\circ}\text{C}$ ^{*)}

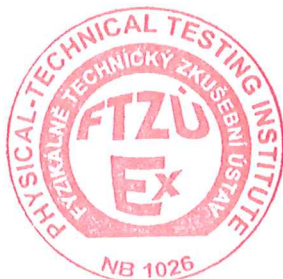
^{*)} Depends on Temperature Class and input power, see tables above

Degree of protection by enclosure: IP66

(16) Report Number: 17/0105/3

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



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**Supplementary EU - Type Examination Certificate No. 3
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(17) Specific Conditions of Use:

None additional to those listed previously.

1. The apparatus contains light alloy parts and must be protected against impact and friction when is used and transported in hazardous area.
2. If the product is used in Zone 0 and Gas Group IIC, under certain extreme circumstances, the plastic part of enclosure may store an ignition-capable level of electrostatic charge. The device shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge. The equipment shall only be cleaned with a damp cloth.
3. If the product is used in dust explosive atmosphere, under certain extreme circumstances, the surface of enclosure may store an ignition-capable level of electrostatic charge. The device shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge.
4. If the apparatus is used in the dust explosive atmosphere it must be used certified glands and blank elements according to EN 60079-1 or EN 60079-7 with appropriate IP code according to EN 60529.

(18) Essential Health and Safety Requirements:

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

(19) Drawings and Documents:

Number	Sheets	Date	Description
8190997	1	03.2024	Operating conditions EX

Responsible person:

Lukáš Martinák
Dipl. Ing. Lukáš Martinák
Head of Certification Body



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