



Technická inšpekcia, a.s.

Trnavská cesta 56, 821 01 Bratislava, Slovenská republika

[1] EU-TYPE EXAMINATION CERTIFICATE



[2] Equipment or Protective System Intended for use in potentially explosive atmospheres
Directive 2014/34/EU

[3] EU-Type Examination Certificate Number:

TI22ATEX 278 X

[4] Product: **Explosion Proof Solenoid with Junction Box with/without LED, Size: I, II, III, IV
Type: 37, 39, 39L, 37L**

[5] Manufacturer: **ROTEX AUTOMATION LIMITED**

[6] Address: **987/11, GIDC, MAKARPURA, VADODARA-390010, GUJARAT, INDIA**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] Technická inšpekcia, a.s., Notified Body Number 1354 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of product intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report No. 278/5/2022.

[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 60079-31:2014** except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific conditions of Use specified in the schedule to this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of this Directive apply to the manufacturing process and supply of this product.

[12] The marking of the product shall include the following:



**II 2 GD Ex db IIC T6/T5/T4 Gb
Ex tb IIIC T80°C/T95°C/T130°C Db**

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Bratislava, June 29, 2022

JUDr. Vladimír Jurík
General Director

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Page 1 of 3 of Certificate No. TI22ATEX 278X





NB 1354



[13] **Schedule**

[14] **EU-Type Examination Certificate Number: TI22ATEX 278X**

[15] Description of product:

Explosion Proof Solenoid with Junction Box with/without LED

Type series: 37, 39, 39L, 37L

Explosion Proof Solenoid with Junction box with/without LED, drives the rods which open/close electro-valves. The equipment is enclosed in a flameproof enclosure made in light alloy or stainless steel which contains the terminal connections to the external power supply. Four different sizes from size I, II, III and size IV are available.

According to the thread of the cable entry the following types are foreseen:

39L – Cable Entry M25X1.5

39 – Cable entry M20X 1.5

37L – 3/4" NPT

37 – Cable Entry 1/2" NPT

Electrical characteristics:

- Rated voltage: 6, 12, 24, 36, 42, 90, 120, 240, (V_{dc}/V_{ac}) voltage variation $\pm 20\%$
- Rated frequency: 50 or 60 Hz $\pm 5\%$
- Maximum dissipated power: 30 W
- Degree of protection: IP 66 / IP 67 (EN 60529)
- Ambient temperature: Refer below Table A :

TEMPERATURE MARKING (TABLE 'A')		
FOR SIZE I - 5WATT, SIZE-II - 8WATT & SIZE IV - 11 WATT SOLENOID Ex db IIC T6 / T5 Gb, Ex tb IIIC T80 °C / T95 °C Db IP66/ IP67 -40 °C < Ta < 65 °C FOR T6 -40 °C < Ta < 70 °C FOR T5	FOR SIZE I - 8WATT, SIZE-II - 10WATT, SIZE II-13 WATT & SIZE-III-8 WATT SOLENOID Ex db IIC T6 / T5 Gb, Ex tb IIIC T80 °C / T95 °C Db, IP66/ IP67 -40 °C < Ta < 60 °C FOR T6 -40 °C < Ta < 70 °C FOR T5	FOR SIZE III - 15 WATT SOLENOID Ex db IIC T6/T5/T4 Gb, Ex tb IIIC T80 °C/T95 °C/T130 °C Db, IP66/ IP67 -40 °C < Ta < 50 °C FOR T6 -40 °C < Ta < 65 °C FOR T5 -40 °C < Ta < 70 °C FOR T4
FOR SIZE III - 5 WATT, SIZE IV- 5WATT SOLENOID Ex db IIC T6 Gb, Ex tb IIIC T80 °C Db, IP66/ IP67 -40 °C < Ta < 70 °C FOR T6	FOR SIZE II - 20 WATT SOLENOID Ex db IIC T6 / T5 Gb, Ex tb IIIC T80 °C / T95 °C Db, IP66/ IP67 -40 °C < Ta < 55 °C FOR T6 -40 °C < Ta < 70 °C FOR T5	FOR SIZE II - 30 WATT SOLENOID Ex db IIC T6/T5/T4 Gb, Ex tb IIIC T80 °C / T95 °C/ T130 °C Db, IP66/ IP67 -40 °C < Ta < 40 °C FOR T6 -40 °C < Ta < 55 °C FOR T5 -40 °C < Ta < 70 °C FOR T4

[16] Report Number:

Inspection report No: 278/5/2022

Final Test Report No: 278/5/2022

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Page 2 of 3 of Certificate No. TI22ATEX 278X

CSTA3-128



[17] Special conditions for safe use:

- Do not open when an explosive gas atmosphere may be present.
- Refer Instructions for use before use
- ATEX Certified Cable Glands to be used and temp. Range must fulfill 85°C/100°C/135°C

[18] Essential Health and Safety Requirements:

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information: None.

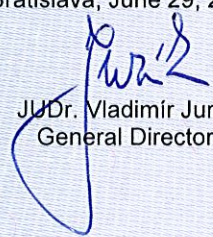
[19] Drawings and Documents:

Number	Sheet	Issue	Date	Description
11-TCMS-01-2022-001	01 of 04	06	19-05-2022	Explosionproof solenoid with junction box, with/without LED
11-TCMS-01-2022-002	02 of 04	06	19-05-2022	Flamepath
11-TCMS-01-2022-003	03 of 04	06	19-05-2022	Circuit Diagram (37 & 39)
11-TCMS-01-2022-004	04 of 04	06	19-05-2022	Coil Label for FPJB Horizontal Cable entry
IMV0318	05 pgs	0	29-06-2022	Instruction Manual
KLPL/Ex/RAL-21/001	39 pgs	-	08-09-2021	Test Report

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Page 3 of 3 of Certificate No. TI22ATEX 278X

CSTA3-128

