



TECHNICKÁ INŠPEKCIA, a.s.



SLOVENSKÁ REPUBLIKA



[1] **EC-TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective System Intended for use in potentially explosive atmospheres
Directive 94/9/EC

[3] EC-Type Examination Certificate Number: **T115ATEX 1408 X**

[4] Equipment or Protective System:
TERMINAL BOX SOLENIOD WITH HORIZONTAL CABLE ENTRY
Type 58, Size I/II/III/IV and Type 58-LT, Size I/II/III/IV

[5] Manufacturer: **Rotex Automation Limited**

[6] Address: **987/11, 12 & 13, GIDC-Makarpura, Vadodara – 390 010, Gujarat, India**

[7] This equipment or protective system 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 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 No. 1408/5/2015.

[9] Compliance with the Essential Health and safety Requirements has been assured by compliance with **EN 60079-0:2012/A11:2013, EN 60079-7:2007, EN 60079-18:2009, EN 60079-31:2014**

[10] If the sign "X" is placed after the certificate number, it indicate that the equipment or protective systems is subject to special condition for safe use specified in the schedule to this certificate.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

[12] The marking of the equipment or protective system shall include the following:

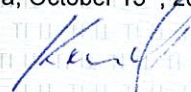
Type 58:  **II 2GD Ex e mb IIC T6...T4 Gb IP67 (-40°C ≤ Tamb ≤ +70°C)**
Ex tb IIIC T6...T4 Db IP67 (-40°C ≤ Tamb ≤ +70°C)

Type 58-LT:  **II 2GD Ex e mb IIC T6...T4 Gb IP67 (-60°C ≤ Tamb ≤ +70°C)**
Ex tb IIIC T6...T4 Db IP67 (-60°C ≤ Tamb ≤ +70°C)

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Bratislava, October 13th, 2015


Ing. Dušan Konický
General Director

301031

CSTA2-128

This certificate may only be reproduced in its entirety and change, schedule included.

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[13]

Schedule

[14] EC-Type Examination Certificate Number: TI15ATEX 1408 X

[15] Description of Equipment or protective system:

TERMINAL BOX SOLENOID WITH HORIZONTAL CABLE ENTRY
Type 58, Size I/II/III/IV and Type 58-LT, Size I/II/III/IV

SIZE	ENCLOSURE	GROSS VOLUME	NET VOLUME
II	TERMINAL ENCLOSURE	50 CC	43.5 CC
III	TERMINAL ENCLOSURE	50 CC	43.5 CC
IV	TERMINAL ENCLOSURE	50 CC	43.5 CC
I	TERMINAL ENCLOSURE	40 CC	43.5 CC

EPOXY SYSTEM

MANUFACTURER: Huntsman Advanced Material India Pvt. Ltd., Mumbai.

RESINE: CW 229-3, Liquid, prefilled, solvent-free, brown bishphenol A epoxy resin.

HARDENER: HW 229-1, Liquid, modified, prefilled and preaccelerated anhydride hardener.

ADDITIONAL TREATMENT: NIL, FILLER: 55 to 65% by Wt.

MIXING RATIO: 100:100

CURING: 4 hrs @ 130°C

Water Absorption: 0.2 % by Wt.

Track Resistance: >600 Volts

Dielectric strength at RT: 18 kv/mm

Surface Resistance < 1 giga ohm @ 30°C

TEMPERATURE: Min. -80°C, Max. 250°C

OR

MANUFACTURER: ELANTAS Electrical Insulation, Italy.

RESINE: MC 62.

HARDENER: W363

ADDITIONAL TREATMENT: NIL,

MIXING RATIO: 100:13 by Weight.

CURING: 2 hrs @ 90°C

Dielectric strength at RT: 18 kv/mm

TEMPERATURE: Min. -60°C, Max. 180°C

[16] Report Number:

Inspection Report No. 1408/5/2015

[17] Special conditions for safe use:

Maximal ambient temperature

Type 58:

For Size I 5Watt, Size II – 8 Watt & Size IV – 11 Watt Solenoid Ex e mb IIC T6 – T5 IP67 Ex tb IIIC T6 – T5 IP 67 -40 °C ≤ Ta ≤ 65 °C for T6 -40 °C ≤ Ta ≤ 70 °C for T5	For Size I - 8Watt, Size II – 10 Watt, Size II – 13 Watt & Size III – 8 Watt Solenoid Ex e mb IIC T6 – T5 IP67 Ex tb IIIC T6 – T5 IP 67 -40 °C ≤ Ta ≤ 60 °C for T6 -40 °C ≤ Ta ≤ 70 °C for T5	For Size III – 15 Watt Solenoid Ex e mb IIC T6 – T4 IP67 Ex tb IIIC T6 – T4 IP 67 -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 VI – 5 Watt Solenoid Ex e mb IIC T6 IP67 Ex tb IIIC T6 IP 67 -40 °C ≤ Ta ≤ 70 °C for T6	For Size II – 20 Watt Solenoid Ex e mb IIC T6 – T5 IP67 Ex tb IIIC T6 – T5 IP 67 -40 °C ≤ Ta ≤ 55 °C for T6 -40 °C ≤ Ta ≤ 70 °C for T5	For Size II – 30 Watt Solenoid Ex e mb IIC T6 – T4 IP67 Ex tb IIIC T6 – T4 IP 67 -40 °C ≤ Ta ≤ 40 °C for T6 -40 °C ≤ Ta ≤ 55 °C for T5 -40 °C ≤ Ta ≤ 70 °C for T4

Type 58-LT:

For Size I 5Watt, Size II – 8 Watt & Size IV – 11 Watt Solenoid Ex e mb IIC T6 – T5 IP67 Ex tb IIIC T6 – T5 IP67 -60 °C ≤ Ta ≤ 65 °C for T6 -60 °C ≤ Ta ≤ 70 °C for T5	For Size I - 8Watt, Size II – 10 Watt, Size II – 13 Watt & Size III – 8 Watt Solenoid Ex e mb IIC T6 – T5 IP67 Ex tb IIIC T6 – T5 IP67 -60 °C ≤ Ta ≤ 60 °C for T6 -60 °C ≤ Ta ≤ 70 °C for T5	For Size III – 15 Watt Solenoid Ex e mb IIC T6 – T4 IP67 Ex tb IIIC T6 – T4 IP67 -60 °C ≤ Ta ≤ 50 °C for T6 -60 °C ≤ Ta ≤ 65 °C for T5 -60 °C ≤ Ta ≤ 70 °C for T4
For Size III – 5 Watt & Size VI – 5 Watt Solenoid Ex e mb IIC T6 IP67 Ex tb IIIC T6 IP67 -60 °C ≤ Ta ≤ 70 °C for T6	For Size II – 20 Watt Solenoid Ex e mb IIC T6 – T5 IP67 Ex tb IIIC T6 – T5 IP67 -60 °C ≤ Ta ≤ 55 °C for T6 -60 °C ≤ Ta ≤ 70 °C for T5	For Size II – 30 Watt Solenoid Ex e mb IIC T6 – T4 IP67 Ex tb IIIC T6 – T4 IP67 -60 °C ≤ Ta ≤ 40 °C for T6 -60 °C ≤ Ta ≤ 55 °C for T5 -60 °C ≤ Ta ≤ 70 °C for T4

[18] Essential Health and Safety Requirements:
Covered by the applied Standard.

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