



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx EXA 15.0008X Issue No: 0 Certificate history:
Issue No. 0 (2015-10-07)

Status: **Current** Page 1 of 3

Date of Issue: **2015-10-07**

Applicant: **Eisenbau Srl**
Via T.A.Edison,16 – 20090 Cusago (MI)
Italy

Electrical Apparatus: **Guard box - GD series**
Optional accessory:

Type of Protection: **Flameproof enclosures 'd'; Dust ignition protection 't'**

Marking:
Ex db IIC T6...T4 Gb
Ex tb IIIC T85°C...T135°C Db

*Approved for issue on behalf of the IECEx
Certification Body:*

Stipo Đerek

Position:

Director General

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Agencija za prostore ugrožene eksplozivnom atmosferom (Ex-
Agencija)
Industrijska 25
HR-10431 Sveta Nedelja
Croatia**





IECEX Certificate of Conformity

Certificate No: IECEx EXA 15.0008X Issue No: 0
Date of Issue: **2015-10-07** Page 2 of 3
Manufacturer: **Eisenbau**
Via T.A.Edison,16 – 20090 Cusago (MI)
Italy

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

| | |
|---|--|
| IEC 60079-0 : 2011 Edition:6.0 | Explosive atmospheres - Part 0: General requirements |
| IEC 60079-1 : 2014-06 Edition:7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| IEC 60079-31 : 2013 Edition:2 | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" |

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[HR/EXA/ExTR15.0017/00](#)

Quality Assessment Report:

[HR/EXA/QAR15.0001/00](#)



IECEx Certificate of Conformity

Certificate No: IECEx EXA 15.0008X

Issue No: 0

Date of Issue: 2015-10-07

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Guardbox Limit switch boxes are electromechanical devices for monitoring the operation of industrial valves in plants. The Guardbox devices are used to control the position of the valve and provide electrical feedback signal of valve status to plant control systems. They are equipped with visible position indicator that represent a true indication of valve position. Degree of protection by enclosure is IP 66 or IP68 (20m / 2h).

For details see Annex of this certificate.

CONDITIONS OF CERTIFICATION: YES as shown below:

Appropriate method of installation, maintenance and operation, should prevent accumulation of static charge on enclosure of the device.

Use screws of quality A2-70 or A4-70 according to UNI 5931 with ultimate tensile strength of at least 700 N/mm².

Annex:

[IECEx_EXA_15_0008X_Eisenbau_Limit switch_ANNEX_1.pdf](#)



Ex-Agencija
Industrijska 25
10001 Sveta Nedelja
Croatia

ANNEX to **IECEX EXA 15.0008X**

Issue No. **0**

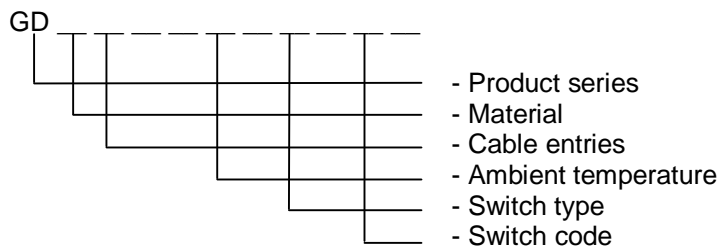
Date: **2015-10-07**

Page: **1 of 1**

Ambient temperature: $-60^{\circ}\text{C} \leq T_a \leq 105^{\circ}\text{C}$
Nominal voltage: 0 VDC - 125 VDC
0 VAC - 250 VAC
Nominal current: 0.1A - 10A

| $T_{a_{max}}$ [°C] | Maximal allowed power dissipation [W] | Temperature class | Maximum surface temperature | Suitable cable temperature class |
|-----------------------|---|----------------------|-----------------------------------|-------------------------------------|
| 40 | 10 | T6 | 85°C | 70°C |
| 65 | 4 | T6 | 85°C | 80°C |
| | 10 | T5 | 100°C | 100°C |
| 85 | 4 | T5 | 100°C | 100°C |
| | 10 | T4 | 135°C | 120°C |
| 90 | 4 | T4 | 135°C | 105°C |
| | 10 | T4 | 135°C | 125°C |
| 105 | 4 | T4 | 135°C | 120°C |

Marking:



Minimum width of joints (L) are shown in the following table:

| Flameproof joint | Joints [mm] | | | | | |
|---|-------------|------|------|------|-------|-----------|
| | L | l | c | d | Pitch | i_{max} |
| Housing - cover | 15.5 | 12.5 | / | 15.5 | / | 0.04 |
| Housing - shaft | 25.5 | / | 25.5 | / | / | 0.15 |
| Cover - shaft | 25.5 | / | 25.5 | / | / | 0.15 |
| Housing - cable gland ($\frac{1}{2}\varnothing$ NPT, $\frac{3}{4}\varnothing$ NPT, M20x1.5, M25x1.5) | 14 | / | / | / | 1.5 | / |