



[1] **EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 20 ATEX 0039X** Issue: **1**

[4] Product: **Limit switch box**
Type: **Guardbox – GD series**

[5] Manufacturer: **Eisenbau s.r.l.**

[6] Address: **Viale Europa 39, 20047 Cusago (MI), Italy**

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

[8] FIDITAS Ltd., Notified Body number 2829 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 products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 20 CR 030**

[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 Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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



II 2G Ex db IIC T6...T4 Gb

II 2D Ex tb IIIC T85°C...T135°C Db

Our ref.: 20.CRT.261

Date: 30.10.2020.



FIDITAS Ltd.
Certification department

Approved:

Marino Kelava, M.E.Eng.

[13]

SCHEDULE

 [14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 20 ATEX 0039X**

 [15] **Description of product**

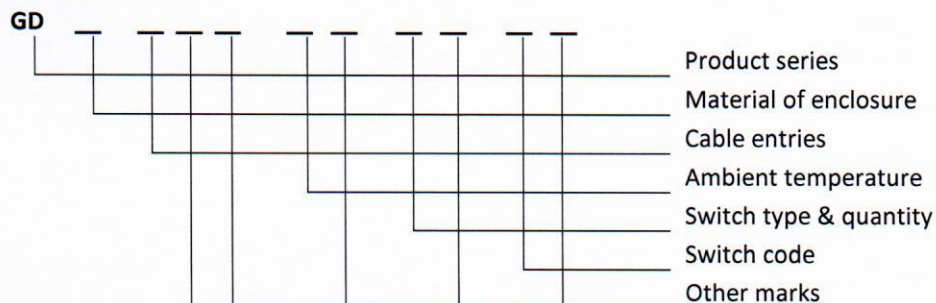
Guardbox limit switch boxes are electromechanical devices used for the monitoring of the operation of industrial valves in facilities. Guardbox devices are used to control the position of the valve and to provide electrical feedback signal of valve position status to plant control system. They are equipped with a visible position indicator that represents a true indication of valve position.

Separately certified cable glands in type of protection flameproof enclosure "db" and protection by enclosure "tb" shall be used for cable entry.

Technical data:

Nominal voltage:	0 Vdc - 125 Vdc 0 Vac - 250 Vac
Nominal current:	0.1 A – 10 A
Ambient temperature range:	-60°C to +105°C
Mechanical protection:	IP 66 according to EN IEC 60079-0 and EN 60529 IP 68 (20 m / 2h) according to EN 60529

$T_{a \max}$ [°C]	Maximally allowed power dissipation [W]	Temperature class	Maximum surface temperature	Min. cable temperature resistance [°C]
40	10	T6	T85°C	70
65	4	T6	T85°C	80
	10	T5	T100°C	100
85	4	T5	T100°C	100
	10	T4	T135°C	120
90	4	T4	T135°C	105
	10			125
105	4	T4	T135°C	120

Marking:

Warning markings:

"DO NOT OPEN IN A GAS/DUST EXPLOSIVE ATMOSPHERE"

"DUE TO RISK OF STATIC HAZARD, THE ENCLOSURE MUST ONLY BE CLEANED WITH A DAMP CLOTH"



[16] Confidential Report No. FIDI 20 CR 030

[16.1] Routine testing

None

[17] Specific Conditions of Use

- Flameproof joints are not intended to be repaired.
- An appropriate method of installation, maintenance and operation should prevent the accumulation of static charges on the enclosure of the device.
- Use screws of quality A2-70 or A4-70 according to UNI 5931 with the ultimate tensile strength of at least 700 N/mm².

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Installation, Operation & Maintenance Manual	0100-ENG	6	21.10.2020.
Certification drawings:			
Stainless steel body GD	EC-0101005-02	02	14.10.2020.
Cover GD	EC-0102002-02	02	21.10.2020.
Part list switch box blind GD	EC-0120003-02	02	21.10.2020.
Body GD	EC-0101002-01	01	10.02.2015
Stainless steel cover GD	EC-0102009-02	02	14.10.2020.
Part list GD	EC-0120001-02	02	21.10.2020.
Part list GD stainless steel	EC-0120002-02	02	21.10.2020.
Blind cover GD	EC-0102008-01	02	21.10.2020.
Part list switch box blind stainless GD	EC-0120004-02	02	21.10.2020.
Stainless steel cover blind GD	EC-0102010-02	02	14.10.2020.
Shaft box GD certification	EC-0104001-00	00	10.07.2014.
Shaft switch box blind certification	EC-0104003-00	00	10.07.2014.
GD limit switch box gasket	EC-0107002-00	00	18.12.2014.
External nameplate with certification data	EC-0108001-01	01	14.10.2020.
Screw box	EC-0109001-00	00	30.07.2014.
Width of flameproof joint GD	EC-0120011-00	00	15.09.2014.
Width of flameproof joint GD stainless steel	EC-0120012-00	00	15.09.2014.
External nameplate for marking operating parameters	EC-0108005-00	00	14.10.2020.