



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:	IECEx INE 13.0054X	Page 1 of 4	<u>Certificate history:</u> Issue 0 (2013-10-14)
Status:	Current	Issue No: 1	
Date of Issue:	2021-01-25		
Applicant:	COELBO S.r.l. Via Santa Margherita, 83 I-20861 Brugherio (MB) Italy		
Equipment:	Limit switches series FCL...		
Optional accessory:			
Type of Protection:	db and tb		
Marking:	Ex db I Mb Ex db IIB+H2 T6 Gb Ex tb IIIC T85°C Db IP65		

Approved for issue on behalf of the IECEx
Certification Body:

Thierry HOUÉIX

Position:

Ex Certification Officer

Signature:
(for printed version)

Date:

2021-01-25

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 www.iecex.com or use of this QR Code.



Certificate issued by:

INERIS
Institut National de l'Environnement Industriel et des Risques
BP n2 / Parc Technologique ALATA
F-60550 Verneuil-en-Halatte
France





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Date of issue: 2021-01-25

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Manufacturer: **COELBO S.r.l.**
Via Santa Margherita, 83
I-20861 Brugherio (MB)
Italy

Additional
manufacturing
locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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:

[FR/INE/ExTR13.0054/01](#)

Quality Assessment Report:

[IT/CES/QAR10.0009/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Limit switches series FCL... consist of a flameproof enclosure including an electrical contact.

The enclosures are made in stainless steel AISI316L or brass CW608N for using in hazardous area Group I, IIB+H2 and IIIC. These limit switches are also available in light alloy for using in Group IIB+H2 and IIIC.

The enclosures get the degrees of protection IP65 in accordance with IEC 60529.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The dimensions of flameproof joints are different from the values specified in the tables of the IEC 60079-1 standard. The flameproof joints are not intended to be repaired.
- The screws used for the assembly of the various parts of explosion-proof enclosures must be of quality higher or equal to 450 MPa.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

For the issue 01:

Application of new standards version: IEC 60079-0:2017, IEC 60079-1:2014 and IEC 60079-31:2013

Annex:

[IECEx INE 13.0054X-01_Annex.pdf](#)



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Annex: IECEx INE 13.0054X-01_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

Maximum supply voltage : 500 Vac or 250 Vdc
Maximum intensity : 15 A
Nominal frequency : 50/60 Hz

MARKING

Marking has to be readable and indelible; it has to include the following indications:

A. Limit switches in light alloy:

- COELBO
- I – 20861 Brugherio (MB)
- FCL... (*)
- IECEx INE 13.0054X
- (Serial number)
- Ex db IIB+H2 T6 Gb
- Ex tb IIIC T85°C Db
- IP65
- Tamb. : -50°C to +60°C
- WARNING:
 - DO NOT OPEN WHEN ENERGIZED

B. Limit switches in stainless steel or brass:

- COELBO
- I – 20861 Brugherio (MB)
- FCL... (*)
- IECEx INE 13.0054X
- (Serial number)
- Ex db I Mb
- Ex db IIB+H2 T6 Gb
- Ex tb IIIC T85°C Db
- IP65
- Tamb. : -50°C to +60°C
- WARNING:
 - DO NOT OPEN WHEN ENERGIZED

(*) The type is completed by numbers and/or letters in accordance with the manufacturing variations.

ROUTINE EXAMINATIONS AND TESTS

In accordance with § 16.2 of the IEC 60079-1 standard, the equipment defined above is exempted of routine test due to the fact it has undergone a static type test at 4 times the reference pressure under 34.9 bar for ambient down to -50°C.