



# 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](http://www.iecex.com)

Certificate No.: IECEX INE 13.0051X      issue No.:0      Certificate history:

Status: **Current**

Date of Issue: **2013-10-02**      Page 1 of 3

Applicant: **COEL MOTORI s.r.l**  
Via Campania 40  
20090 - Fizzonasco di Pieve Emanuele (MI)  
Italy


Electrical Apparatus: **Limit switches LIMITEX xMICRO 00x**  
*Optional accessory:*

Type of Protection: **d, tb**

Marking: **Ex d I Mb**  
**Ex d IIB T6 Gb or Ex d IIC T6 Gb**  
**Ex tb IIIC T85°C Db IP66**

Approved for issue on behalf of the IECEX  
Certification Body: **Thierry HOUEIX**

Position: **Ex Certification Officer**

Signature:  
(for printed version) 

Date: **2013-10-04**

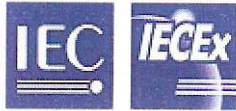


1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

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

**INERIS**



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Manufacturer: **COEL MOTORI s.r.l**  
Via Campania 40  
20090 - Fizzonasco di Pieve Emanuele  
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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> Edition: 1	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:

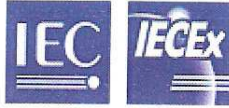
*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

##### Test Report:

FR/INE/ExTR13.0059/00

##### Quality Assessment Report:

FR/INE/QAR11.0012/01



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Limit switches type LIMITEX consist of a flameproof enclosure made in cast iron including electrical contacts. These limit switches are available in 2 different connection switch types : rotary and position.

The equipments are protected by the type of protection "d" and "tb".

The enclosures get the degrees of protection IP66 in accordance with IEC 60529 standard.

### CONDITIONS OF CERTIFICATION: YES as shown below:

- The gaps and diametrical clearances of the different flamepath joints are less than the values specified in the tables of the IEC 60079-1 standard.
- The width of the flamepath joints is superior than the values specified in the tables of 60079-1 standard.
- For group I, the user shall take into consideration that the equipments underwent only a shock test corresponding to a low risk energy.

Annex: IECEx INE 13.0051X\_Annex.pdf



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Annexe: IECEX INE 13.0051X\_Annex.pdf

## PARAMETERS RELATING TO THE SAFETY

Maximum supply voltage : 300 Vac  
Maximum intensity : 3 A  
Maximum dissipated power : 2 W  
Nominal frequency : 50/60Hz

## MARKING

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

- COEL MOTORI S.r.l
- I -20090 - Fizzonasco di Pieve Emanuele (MI)
- LIMITEX xMICRO-00x... (1)
- IECEX INE 13.0051X
- (Serial number)
- Ex d I Mb
- Ex d IIB T6 Gb or Ex d IIC T6 Gb
- Ex tb IIIC T85°C Db IP66
- $-20^{\circ}\text{C} \leq \text{Tamb} \leq +60^{\circ}\text{C}$  or  $-50^{\circ}\text{C} \leq \text{Tamb} \leq +60^{\circ}\text{C}$
- WARNING: DO NOT OPEN IF ANY EXPLOSIVE ATMOSPHERE MAY BE PRESENT

(1) Type is completed by numbers and /or letters corresponding to manufacturing variations.

## ROUTINE EXAMINATIONS AND TESTS

In accordance with clause 16.2 of the IEC 60079-1 standard, the equipment defined above is exempted from routine test due to the fact a static pressure test has been performed at 4 times the reference pressure under 44.1 bar.