



# 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.:  issue No.:

Status:

Date of Issue: **2013-06-25** Page 1 of 3

Applicant: **ARIET**  
Via Monza, 13  
I - 20060 Bussero (MI)  
**Italy**

Electrical Apparatus: **Push button panel type FLY8 or FLY12**  
*Optional accessory:*

Type of Protection: **d and tb**

Marking: **Ex d IIB T6 Gb or Ex d IIC T6 Gb**  
**Ex tb IIIC T85°C Db IP 66**

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

*Position:* Ex Certification Officer

*Signature:*  
*(for printed version)*

*Date:* 2013-06-25

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 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**





# IECEx Certificate of Conformity

Certificate No.: IECEx INE 12.0059X

Date of Issue: **2013-06-25**

Issue No.: **0**

Page 2 of 3

Manufacturer: **ARIET**  
Via Monza, 13  
I - 20060 Bussero (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:

- |  |  |
|--|--|
| <b>IEC 60079-0 : 2011</b><br>Edition: 6.0  | Explosive atmospheres - Part 0: General requirements                                 |
| <b>IEC 60079-1 : 2007-04</b><br>Edition: 6 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"    |
| <b>IEC 60079-31 : 2008</b><br>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/ExTR13.0018/00](#)

Quality Assessment Report:

[FR/INE/QAR11.0005/01](#)



# IECEx Certificate of Conformity

Certificate No.: IECEx INE 12.0059X

Date of Issue: 2013-06-25

Issue No.: 0

Page 3 of 3

## Schedule

### EQUIPMENT:

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

This enclosure consists of a body closed by a lid fixed by screws.  
It can be fitted with eight push buttons for type FLY8 or with twelve push buttons for type FLY12.  
The lid is made with a flanged joint for group IIB or with a spigot joint for group IIC.  
The enclosure can be fitted with an internal heating resistance.  
This enclosure gets the degrees of protection IP66 in accordance with IEC 60529.

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

The gap and diametric clearance of the different flamepath joints are less than the values specified in the tables of the IEC 60079-1 standard.  
The width of the different flameproof joints is higher to the value specified in tables of IEC 60079-1 standard.



# IECEx Certificate of Conformity

Certificate No.: IECEx INE 12.0059X

Date of Issue: **2013-06-25**

Issue No.: **0**

Page 1 of 3

Annexe: IECEx INE 12.0059X\_Annex.pdf

## **PARAMETERS RELATING TO THE SAFETY**

### Internal component:

Maximum supply voltage : 380 V  
Maximum intensity : 10 A  
Maximum power : 5 W

### Internal resistance:

Maximum supply voltage : 220 V  
Maximum power : 10 W

These enclosures can be use in range of ambient temperatures from -20°C or -50°C to 55°C.

## **MARKING**

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

### **A - Enclosures for group IIB:**

- ARIET
- I – 20060 Bussero
- FLY.(\*)
- IECEx INE 12.0059X
- (Serial number)
- Ex d IIB T6 Gb
- Ex tb IIIC T85°C Db IP66
- ...°C < Tamb < ...°C (\*\*)
- CABLE ENTRY : SEE INSTRUCTIONS.
- **WARNINGS:**
- DO NOT OPEN WHEN ENERGIZED
- AFTER DE-ENERGIZING, DELAY 15 MINUTES BEFORE OPENING
- USE SCREWS HAVING MINIMUM QUALITY A2 CLASS 70

(\*) One of the following types: FLY8 or FLY12.

(\*\*) One of the following ambient temperature ranges: -20°C to 55°C or -50°C to 55°C.



# IECEx Certificate of Conformity

Certificate No.: IECEx INE 12.0059X

Date of Issue: **2013-06-25**

Issue No.: **0**

Page 2 of 3

Annexe: IECEx INE 12.0059X\_Annex.pdf

## **B - Enclosures for group IIC:**

- ARIET
- I – 20060 Bussero
- FLY.(\*)
- IECEx INE 12.0059X
- (Serial number)
- Ex d IIC T6 Gb
- Ex tb IIIC T85°C Db IP66
- ...°C < Tamb < ...°C (\*\*\*)
- CABLE ENTRY : SEE INSTRUCTIONS.
- **WARNINGS:**
- DO NOT OPEN WHEN ENERGIZED
- AFTER DE-ENERGIZING, DELAY 15 MINUTES BEFORE OPENING
- USE SCREWS HAVING MINIMUM QUALITY A2 CLASS 70

(\*) One of the following types: FLY8 or FLY12.

(\*\*) One of the following ambient temperature ranges: -20°C to 55°C or -50°C to 55°C.



# IECEx Certificate of Conformity

Certificate No.: IECEx INE 12.0059X

Date of Issue: **2013-06-25**

Issue No.: **0**

Page 3 of 3

Annexe: IECEx INE 12.0059X\_Annex.pdf

## **ROUTINE EXAMINATIONS AND TESTS**

### **Enclosures group IIB:**

For ambient down to -20°C:

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 25.6 bar.

For ambient down to -50°C:

In accordance with clause 16.1 of the IEC 60079-1 standard each apparatus defined above has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under 14.7 bar.

### **Enclosures group IIC:**

In accordance with clause 16.1 of the IEC 60079-1 standard each apparatus defined above has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under:

- 13.2 bar for using at ambient temperature down to -20°C.
- 20.2 bar for using at ambient temperature down to -50°C.