



- (2) **Equipment and protective systems intended for use in potentially explosive atmosphere:  
Directive 94/9/EC**

(1) **EC-TYPE EXAMINATION CERTIFICATE**

- (3) Number of the EC type examination certificate: **INERIS 12ATEX0085X**

- (4) Equipment or protective system:

**PUSH BUTTON PANEL TYPE FLY8 or FLY12**

- (5) Manufacturer: **ARIET**  
(6) Address: **Via Monza, 13  
I - 20060 Bussero (MI)**

- (7) This equipment or protective system and any other acceptable alternative of this one are described in the annex of this certificate and the descriptive documents quoted in this annex.

- (8) INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/EC of the 23<sup>rd</sup> March 1994, certifies that this equipment or protective system fulfils the Essential of Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, described in annex II of the Directive.

The examinations and the tests are consigned in report No 024495/13.

- (9) The respect of the Essential Health and Safety Requirements is ensured by:

- conformity with:

|             |   |      |              |   |      |
|-------------|---|------|--------------|---|------|
| EN 60079-0  | : | 2009 | IEC 60079-0  | : | 2011 |
| EN 60079-1  | : | 2007 | IEC 60079-1  | : | 2007 |
| EN 60079-31 | : | 2009 | IEC 60079-31 | : | 2008 |

- specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents.



- (10) Sign X, when it is placed following the Number of the EC type examination certificate, indicates that this equipment and protective system is subjected to the special conditions for safe use, mentioned in the annex of this certificate.
- (11) This EC type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system, these are not covered by this certificate.
- (12) The marking of the equipment or the protective system will have to contain:

 

Verneuil-en-Halatte, 2013.06.21



The Chief Executive Officer,  
By delegation  
T. HOUEIX  
Ex Certification Officer



(13)

## A N N E X

(14)

EC TYPE EXAMINATION CERTIFICATE N° INERIS 12ATEX0085X

(15)

### DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

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 EN/IEC 60529.

### PARAMETERS RELATING TO THE SAFETY

#### Internal components:

Maximum supply voltage : 380 V

Maximum intensity : 10 A

Maximum power : 5 W

#### Internal resistance:

Maximum supply voltage : 220 V

Maximum power : 10 W

This enclosure 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:

ARIET

I - 20060 Bussero (MI)

FLY...(\*)

INERIS 12ATEX0085X

⊕ II 2 G ⊕ II 2 D

(Serial number)

(Year of construction)

Ex d IIB T6 Gb or Ex d IIC T6 Gb

Ex tb IIIC T85°C Db IP66

...°C < Tamb < ...°C (\*\*)

CABLE ENTRY: SEE INSTRUCTIONS



**WARNINGS:**

DO NOT OPEN WHILE ENERGIZED.

AFTER DE-ENERGIZING, DELAY 15 MINUTES BEFORE OPENING.

USE SCREWS HAVING MINIMUM QUALITY A2-70

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

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

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

**ROUTINE EXAMINATIONS AND TESTS**

**Enclosures group IIB:**

**For ambient down to -20°C:**

In accordance with clause 16.2 of EN/ 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 EN/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 EN/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.

**(16) DESCRIPTIVE DOCUMENTS**

The descriptive document quoted hereafter constitutes the technical documentation of the equipment, subject of this certificate.

Certification file n° FLY/DC/IECEX/ATEX rev.0 (6 rubrics) dated and signed on 2012.12.03



**(17) SPECIAL CONDITIONS FOR SAFE USE**

- The gap and diametrical clearance of the flamepath joints are less than the values specified in the tables of the EN/IEC 60079-1 standard.
- The width of the flameproof joints is superior to those specified in tables of EN/IEC 60079-1 standard.

**(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS**

The respect of the Essential Health and Safety Requirements is ensured by:

- Conformity to the standards quoted in clause (9).
- All provisions adopted by the manufacturer and defined in the descriptive documents.