




# 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 13.0014	issue No.:	0	Certificate history:
Status:	<b>Current</b>			
Date of Issue:	<b>2013-04-08</b>	Page 1 of 3		
Applicant:	<b>FEAM</b> Via Mario Pagano, 3 I-20090 Trezzano Sul Naviglio Italy			
Electrical Apparatus: <i>Optional accessory:</i>	<b>Enclosures type ESAnA.. and ESXnA..</b>			
Type of Protection:	<b>nA and tc for enclosure and e, ia, ib for components</b>			
Marking:	<b>Ex e ia ib nA IIC T6 or T5 Gc Ex tc IIIC T85°C or T100°C Dc IP66</b>			
Approved for issue on behalf of the IECEX Certification Body:	Thierry HOUEIX			
Position:	Ex Certification Officer			
Signature: (for printed version)				
Date:	<u>2013-04-10</u>			

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 13.0014

Date of Issue: 2013-04-08

Issue No.: 0

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Manufacturer: **FEAM**  
Via Mario Pagano, 3  
I-20090 Trezzano Sul Naviglio  
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 60079-11 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-15 : 2010</b> Edition: 4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
<b>IEC 60079-31 : 2008</b> Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/ExTR13.0015/00](#)

##### Quality Assessment Report:

[IT/CES/QAR09.0003/03](#)



# IECEX Certificate of Conformity

Certificate No.: IECEx INE 13.0014

Date of Issue: 2013-04-08

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## Schedule

### EQUIPMENT:

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

These enclosures made in light alloy for the type ESanA... or stainless steel for the type ESXnA... are protected by non sparking devices "nA" and protected by enclosure "tc" for dust atmosphere.

Enclosures, protected by the type of protection "nA" are intended to receive terminals covered by IECEx certificates (type of protection "Ex e", "Ex ia", "Ex ib") and/or a proximity sensor type PROXIMITOR 3300XL covered by the IECEx certificate IECEx BAS 04.0057X.

Enclosures, protected by enclosure "tc", are intended to received the same equipments listed above.

The list of the component is defined on the technical documentation.

These enclosures get the degrees of protection IP66 according to the IEC 60529 standard.

**CONDITIONS OF CERTIFICATION: NO**



# IECEx Certificate of Conformity

Certificate No.: IECEx INE 13.0014

Date of Issue: 2013-04-08

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Annexe: IECEx INE 13.0014\_Annex.pdf

## PARAMETERS RELATING TO THE SAFETY

### • For the terminals :

Maximum supply voltage : 750 Vac

Maximum intensity : 6 A

Maximum cross-section : 2.5 mm<sup>2</sup>

### • For the proximity sensor type PROXIMITOR 3300XL:

Maximum supply voltage : 26 Vdc

Maximum intensity : 12 mA

The maximum number of the terminals and the allowed rated current depends of the enclosure size, the range of ambient temperature and the temperature class. These parameters are described in the descriptive documents.

These enclosures are intended to be used in the following ranges of ambient temperature, in accordance with the temperature class T6/T85°C, T5/T100°C, the thermal stability of the terminals and the range of ambient temperature of the component installed in the enclosure:

- minimum ambient temperature from -20°C to -40°C
- maximum ambient temperature +60°C

## MARKING

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

- FEAM
- I – 20090 Trezzano Sul Naviglio (MI)
- ESAnA... or ESXnA... (1)
- IECEx INE 13.0014
- (Serial number)
- Ex (2) nA IIC T6 or T5 Gc
- Ex tc IIIC T85°C or T100°C Dc IP66
- -40°C ≤ Tamb ≤ +60°C or -20°C ≤ Tamb ≤ +60°C
- T. cable = (3)
- (Rated voltage and rated current and/or rated power)
- Warning: DO NOT OPEN WHEN ENERGIZED

(1) Type is completed by numbers corresponding to the size of the enclosure.

(2) The marking code Ex is completed by the indication of the type of protection of the component installed in the enclosure in the alphabetical order.

(3) Indication when the temperature is higher than 70°C.

## ROUTINE EXAMINATIONS AND TESTS

In accordance with clause 23.2.1 of the IEC 60079-15 standard, a dielectric strength test on each of the different circuits of the connection units, performed according to the relevant standards, the supply voltage shall applied during one minute.



# 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 13.0014X

Issue No: 1

Certificate history:

Status: Current

Issue No. 1 (2018-06-18)

Issue No. 0 (2013-04-08)

Date of Issue: 2018-06-18

Page 1 of 4

Applicant: FEAM  
Via Mario Pagano, 3  
I-20090 Trezzano Sul Naviglio  
Italy

Equipment: Enclosures type ESanA.. and ESXnA..

Optional accessory:

Type of Protection: ec and tc for enclosures and eb, ec, db, ia, ib, ic, mb, nA, nL for components

Marking: According to the specific configuration :

Ex ec (\*) IIB or IIC T6 or T5 or T4 or T3 Gc

Ex tc (\*) IIIC T85°C or T100°C or T135°C or T200°C Dc IP66 or IP65

(\*) : See annexe

Approved for issue on behalf of the IECEx

Thierry HOUEIX

Certification Body:

Position:

Ex Certification Officer

Signature:  
(for printed version)

*Hoüeix*

Date:

2018-06-18

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Certificate issued by:

INERIS  
Institut National de l'Environnement Industriel  
et des Risques, BP n2  
Parc Technologique ALATA  
France



# IECEX Certificate of Conformity

Certificate No: IECEX INE 13.0014X

Issue No: 1

Date of Issue: 2018-06-18

Page 2 of 4

Manufacturer: **FEAM**  
Via Mario Pagano, 3  
I-20090 Trezzano Sul Naviglio  
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 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:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres - Part 18: Equipment protection by encapsulation "m"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/ExTR13.0015/00](#)

[FR/INE/ExTR13.0015/01](#)

### Quality Assessment Report:

[IT/CES/QAR09.0003/08](#)



# IECEX Certificate of Conformity

Certificate No: IECEx INE 13.0014X

Issue No: 1

Date of Issue: 2018-06-18

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## Schedule

### EQUIPMENT:

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

These enclosures made in light alloy for the type ESANa... or stainless steel for the type ESXnA... are protected by increased safety "ec" and protected by enclosure "tc" for dust atmosphere. The enclosures are covered by the Ex component certificate IECEx INE 13.0102U.

Enclosures, protected by increased safety "ec", are intended to received terminals and/or bus bar and/or some electrical devices covered by separated IECEx certificates and with different types of protection as defined in the descriptive documents of the manufacturer. They can contain also 'IS' element covered by separated certificates.

Enclosures, protected by enclosure "tc" , are intended to receive the same equipment listed above and/or electrical components not covered by an IECEx certificate and listed in the documentation.They can contain also 'IS' element covered by separated certificates.

The list of the component is defined at the end of the Annex of this certificate.

These enclosures get the degrees of protection IP65 or IP66 according to the IEC 600529 standard and in accordance with degrees of protection of the component installed on the enclosure.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

The enclosures could be used in different ambient temperatures ranges comprised from -60°C up to +160°C following the components fitted on the enclosures and in accordance with the descriptive documents.

The instructions for safe use are completed by those stipulated in the instructions manuals of the manufacturer and of each Ex component fitted on the final product.



# IECEX Certificate of Conformity

Certificate No: IECEx INE 13.0014X

Issue No: 1

Date of Issue: 2018-08-18

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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### For the issue 1 :

- Introduction of the ESXnA enclosures type ESXnA150110 and ESXnA 200180
- Extension of the minimum ambient temperature down to -60°C
- Introduction of bus bars
- Update of the list of devices covered by Ex component certificates that could be installed on or inside the enclosures.
- Update of the possibility to install devices covered by Ex full conformity certificates as per conditions defined in the descriptive documents of the manufacturer.
- Application of the standards IEC 60079-7:2015 and IEC 60079-31:2013 for the enclosures and application of the other standards depending on the devices fitted on or inside the enclosures.
- Introduction of specific conditions of uses requiring a "X" at the end of the certificate number.

### Annex:

[IECEX INE 13.0014X-01\\_Annex.pdf](#)





# IECEx Certificate of Conformity

Certificate No.: IECEx INE 13.0014X

Issue No.: 1

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Annex: IECEx INE 13.0014X-01\_Annex.pdf

## PARAMETERS RELATING TO THE SAFETY

### Enclosures "Ex ec" and "Ex tc" with internal component and/or terminals:

- Maximum supply voltage for Non 'IS' elements : 1100 Vac or Vdc
- Maximum supply voltage for "IS" elements : 250 V
- Wiring section of the terminals : from 1.5 mm<sup>2</sup> up to 300 mm<sup>2</sup>

The maximum dissipated power, maximum number of the terminals and the permissible rated current depend of the type of terminals, the size of the enclosure, the range of ambient temperature and the temperature class. These parameters are described on the descriptive documents.

These enclosures are intended to be used in the following ranges of ambient temperature, in accordance with the temperature class T6/T85°C, T5/T100°C, T4/T135°C or T3/T200°C, the thermal stability of the terminals and the range of ambient temperature of the components installed in the enclosure:

- Minimum ambient temperature from -20°C to -60°C for "Ex ec" and "Ex tc" versions.
- Maximum ambient temperature from +40°C to 80°C for "Ex ec" version using the types of terminals specified in the descriptive documents and "Ex tc"
- Maximum ambient temperature from +40°C to 160°C for "Ex ec" (version using only with the terminals SAK covered by certificate IECEx SIR 05.0032U) and "Ex tc"

### For enclosure with intrinsic safety element:

These versions are intended to be used in range of ambient temperatures from:

- -60°C or -40°C or -20°C to +40°C or +50°C or +60°C

The minimum ambient temperature must be in accordance with the IS components installed inside the enclosures (Barriers, terminals...)

The versions using devices other than terminals can be fitted only when the wiring section of each wire and terminal is 2.5 mm<sup>2</sup> and with a maximum current of 6 A. These configurations are only for a maximum ambient temperature 60°C.

### Enclosures "Ex ec" and "Ex tc" with bus bar:

Maximum supply voltage : 750 V  
Maximum intensity : see table below

Max current (Size of bar)	Max. Ambient temperature	Temperature class for ESAnA	Temperature class for ESXnA
85 A (48 mm <sup>2</sup> ) 160 A (100 mm <sup>2</sup> ) 275 A (250 mm <sup>2</sup> )	+100°C	T4/T135°C	T3/T200°C
130 A (48 mm <sup>2</sup> ) 200 A (100 mm <sup>2</sup> ) 400 A (250 mm <sup>2</sup> )	+80°C	T4/T135°C	T3/T200°C
300 A (250 mm <sup>2</sup> )	+55°C	T5/T100°C	-
300 A (250 mm <sup>2</sup> )	+60°C	-	T4/T135°C

The maximum number of the bars and the permissible rated current depend of the size of the enclosure, the range of ambient temperature and the temperature class. These parameters are described on the descriptive documents.

The enclosures including bars are intended to be used in the range of ambient temperature from -60°C up to 100°C for "Ex ec" version and "Ex tc".

### Enclosures "Ex tc" with internal component and/or terminals:

- Maximum supply voltage for Non 'IS' elements : 1100 Vac or Vdc
- Maximum supply voltage for "IS" elements : 250 V

Maximum power dissipated is indicated on the descriptive documentation in accordance with the size of enclosure, the temperature class and the ambient temperature.



# IECEX Certificate of Conformity

Certificate No.: IECEX INE 13.0014X

Issue No.: 1

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Annex: IECEX INE 13.0014X-01\_Annex.pdf

## MARKING

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

### A - Enclosure "Ex ec" and "tc" fitted only with terminals or bars:

FEAM

I - 20090 Trezzano Sul Naviglio (MI)

ESAnA... or ESXnA... (1)

IECEX INE 13.0014X

(Serial number)

Ex ec (2) IIB or IIC T6 or T5 or T4 or T3 Gc

Ex tc IIC T85°C or T100°C or T135°C or T200°C Dc IP66 or IP65

...°C ≤ Tamb ≤ ...°C (3)

T. cable = (4)

(Rated voltage and rated current and/or rated power)

WARNING: DO NOT OPEN WHEN ENERGIZED

- (1) Type is completed by numbers corresponding to the size of the enclosure.
- (2) The marking code Ex could be completed by the indication of the type of protection "Ia", "Ib" or "Ic" in accordance with the type of terminals inside the enclosures.
- (3) Indication of the range of temperature ambient if different from -20°C to +40°C.
- (4) Indication when the temperature is higher than 70°C.

### B - Enclosure "Ex ec" and "tc" fitted with terminals and components:

FEAM

I - 20090 Trezzano Sul Naviglio (MI)

ESAnA... or ESXnA... (1)

IECEX INE 13.0014X

(Serial number)

Ex (2) ec (3) IIB or IIC T6 or T5 or T4 Gc

Ex tc (4) IIC T85°C or T100°C or T135°C Dc IP66 or IP65

...°C ≤ Tamb ≤ ...°C (5)

T. cable = (6)

(Rated voltage and rated current and/or rated power)

WARNING: DO NOT OPEN WHEN ENERGIZED

- (1) Type is completed by numbers corresponding to the size of the enclosure.
- (2) The marking code Ex is completed by the indication of the type of protection of the component installed in the enclosure in the alphabetical order.
- (3) When the enclosure is fitted with intrinsic safety element:  
[Ia IIA or IIB or IIC Ga] or [Ib IIA or IIB or IIC Gb] or [Ic IIA or IIB or IIC]
- (4) When the enclosure is fitted with intrinsic safety element:  
[Ia Da] or [Ib Db] or [Ic]
- (5) Indication of the range of ambient temperature if different from -20°C to +40°C.
- (6) Indication when the temperature is higher than 70°C.

### C - Enclosure "Ex tc" for dust protection:

FEAM

I - 20090 Trezzano Sul Naviglio (MI)

ESAnA... or ESXnA... (1)

IECEX INE 13.0014X

(Serial number)

Ex tc IIC T85°C or T100°C or T135°C or T200°C Dc

IP66 or IP65

...°C ≤ Tamb ≤ ...°C (2)

T. cable = (3)

WARNING: DO NOT OPEN WHEN ENERGIZED



# IECEx Certificate of Conformity

Certificate No.: IECEx INE 13.0014X

Issue No.: 1

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- (1) Type is completed by numbers corresponding to the size of the enclosure.
- (2) Indication of the range of ambient temperature if different from -20°C to +40°C.
- (3) 90°C for T100°C or 120°C for T135°C or 200°C for T200°C.

## ROUTINE EXAMINATIONS AND TESTS

In accordance with clause 7.1 of the IEC 60079-7 standard, a dielectric strength test on each of the different circuits of the connection units, performed according to the relevant standards, the supply voltage shall be applied during one minute.

## List of components that could be mounted on the enclosure and statement of the assessments regarding the older editions of the standard:

Manufacturer	Type operating device	Code	IECEx Certificate number	Standards edition	Statement of the older editions of the standard
BARTEC GmbH	Control and signalling device adapters	05-0003-00**/****	IECEx PT8 8.0037U	IEC 60079-0:2011 IEC 60079-31:2008 IEC 60079-7:2006	(1)
BARTEC GmbH	Control and signalling device adapters	05-0003-00**/****	IECEx CML 14.0005U	IEC 60079-0:2011 IEC 60079-31:2013 IEC 60079-7:2015	(1)
BARTEC GmbH	Circuit module and control circuit switch	07-3321-1... 07-3323-1... 07-3331-1...	IECEx CML 17.0045U	IEC 60079-0:2011 IEC 60079-1:2014 IEC 60079-7:2015	(1)
BARTEC GmbH	Lamp and illuminated indicator module	07-335+*..	IECEx CML 17.0046U	IEC 60079-0:2011 IEC 60079-1:2014 IEC 60079-11:2011 IEC 60079-7:2015	(1)
BARTEC GmbH	Illuminated push button	07-336*+*..	IECEx CML 17.0046U	IEC 60079-0:2011 IEC 60079-1:2014 IEC 60079-11:2011 IEC 60079-7:2015	(1)
CLAG GmbH	Moving-iron voltmeter Moving-iron amperemeter Moving coil amperemeter (only intrinsic safety protection)	VM 45 VM 72 AM 45 AM 72	IECEx BKI 07.0016U	IEC 60079-0:2004 IEC 60079-11:1999 IEC 60079-18:1992 IEC 60079-7:2001	(1)
NUOVA ASP	Ammeter	AM**	IECEx LCIE 13.0008U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
FEAM	Ammeter	AM**	IECEx LCIE 13.0009U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
NUOVA ASP	Explosion proof control switch	IRE-*	IECEx LCIE 13.0004U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
FLAM	Explosion-proof control switch	IRE-*	IECEx LCIE 13.0005U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
NUOVA ASP	Flameproof button	PBE-*	IECEx LCIE 13.0006U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
FEAM	Flameproof button	PBE-*	IECEx LCIE 13.0007U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
NUOVA ASP	Explosion proof indicator	LIE-*	IECEx LCIE 13.0017U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
FEAM	Explosion proof indicator	LIE-*	IECEx LCIE 13.0018U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
NUOVA ASP	Breather and draining valve	ECDE1**	IECEx EXA 14.0005U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006 IEC 60079-31:2013	(1)
FLAM	Breather and draining valve	ECDE1**	IECEx EXA 14.0004U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006 IEC 60079-31:2013	(1)
FEENEX	Breather and draining valve	ECDE1**	IECEx FXA 14.0006U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006 IEC 60079-31:2013	(1)
Pepperl & Fuchs GmbH	Multifunctional terminal	MFT-***	IECEx BKI 08.0008U	IEC 60079-0:2004 IEC 60079-1:2003 IEC 60079-7:2001	(1)



# IECEX Certificate of Conformity

Certificate No.: IECEX INE 13.0014X

Issue No.: 1

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Manufacturer	Type operating device	Code	IECEX Certificate number	Standards edition	Statement of the older editions of the standard
Quintex GmbH	Explosion proof switch module	QX0201	IECEX EPS 11.0011U	IEC 60079-0:2007 IEC 60079-1:2007 IEC 60079-7:2006 IEC 61241-0:2004 IEC 61241-1:2004	(1)
Quintex GmbH	Explosion proof signal lamp module	QX0202	IECEX EPS 11.0012U	IEC 60079-0:2007 IEC 60079-1:2007 IEC 60079-7:2006 IEC 61241-0:2004 IEC 61241-1:2004	(1)
Quintex GmbH	Explosion proof potentiometer module	QX0203	IECEX EPS 11.0013U	IEC 60079-0:2007 IEC 60079-1:2007 IEC 60079-7:2006 IEC 61241-0:2004 IEC 61241-1:2004	(1)
Quintex GmbH	Explosion proof ammeter module	QX0205	IECEX EPS 11.0014U	IEC 60079-0:2007 IEC 60079-7:2006 IEC 61241-0:2004 IEC 61241-1:2004	(1)
Quintex GmbH	Explosion proof signal lamp with button module	QX0212	IECEX EPS 11.0015U	IEC 60079-0:2007 IEC 60079-1:2007 IEC 60079-7:2006 IEC 61241-0:2004 IEC 61241-1:2004	(1)
STAHL GmbH	Push button for panel	8003/1.2*** 8009/1.4***	IECEX PTR 06.0066U	IEC 60079-0:2004 IEC 60079-1:2001 IEC 60079-7:2001	(1)
STAHL GmbH	Control switch / switch-Disconnecter	8008/2-***	IECEX PTR 06.0010U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
STAHL GmbH	Indicator light for panel	8010/***	IECEX PTB 05.0016U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-11:2011 IEC 60079-7:2006	(1)
STAHL GmbH	Indicator light for panel	8013/2-*** 8013/4-***	IECEX PTB 07.0012U	IEC 60079-0:2004 IEC 60079-1:2001 IEC 60079-11:1999 IEC 60079-18:1992 IEC 60079-7:2006	(1)
STAHL GmbH	Contact element / isolating terminal	8082/1-***	IECEX PTB 06.0011U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
STAHL GmbH	Control unit (potentiometer)	8208/**-***	IECEX PTB 06.0032U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
STAHL GmbH	Amperemeter Voltmeter	8403/2-*** 8404/4-*** 8405/2-***	IECEX PTB 06.0017U	IEC 60079-0:2000 IEC 60079-18:1992 IEC 60079-7:2001	(1)
STAHL GmbH	Control units with resistor	8453/*	IECEX PTB 06.0031U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
STAHL GmbH	Potentiometer for panel	8455/4	IECEX PTB 07.0001U	IEC 60079-0:2004 IEC 60079-1:2001 IEC 60079-18:1992 IEC 60079-7:2001	(1)
STAHL GmbH	Command and signalling adapters	8602/*	IECEX PTB 06.0014U	IEC 60079-0:2011 IEC 60079-31:2008 IEC 60079-7:2006	(1)
ABB-Entrelec	Terminals	ZS** ZS**-PE	IECEX LC108.0031U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Cabur	Terminals	CBC**	IECEX CES09.0002U	IEC 60079-0:2004 IEC 60079-0:2007 IEC 60079-7:2006	(1)
Cabur	Terminals	CRD.**	IECEX CES09.0009U	IEC 60079-0:2004 IEC 60079-7:2006	(1)
Cabur	Terminals	TEO.* - TED.* - TE.*/*	IECEX CES09.0010U	IEC 60079-0:2004 IEC 60079-7:2006	(1)
Cabur	Terminals	TC/DIN - TC/PO	IECEX CLS11.0020U	IEC 60079-0:2007 IEC 60079-7:2006	(1)
Phoenix	Terminals	MBK 2.5/E	IECEX KEM07.0016U	IEC 60079-0:2004 IEC 60079-7:2006	(1)
Phoenix	Terminals	QTC 1.5 - QTC 1.5-PE	IECEX KEM07.0015U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	QTC 2.5 - QTC 2.5-PE	IECEX KEM07.0010U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	ST 1.5 - ST 1.5- PE	IECEX KEM05.0043U	IEC 60079-0:2011 IEC 60079-7:2006	(1)



# IECEX Certificate of Conformity

Certificate No.: IECEX INE 13.0014X

Issue No.: 1

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Annex: IECEX INE 13.0014X-01\_Annex.pdf

Manufacturer	Type operating device	Code	IECEX Certificate number	Standards edition	Statement of the older editions of the standard
Phoenix	Terminals	ST 2.5 - ST 2.5-PE	IECEX KEM06.0051U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	ST 4 - ST 6 - ST 4 PE - ST 6-PE	IECEX KFM06.0050U	IEC 60079 0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	ST 10 - ST 16 - ST 35 - ST 10-PE - ST 16-PE - ST 35- PE	IECEX KFM06.0033U	IEC 60079 0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	UK 1.5N - UK 2.5N - UK 3N - UK 5N - UK 6N	IECEX KEM06.0034U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	UK 10N - UK 16N - UK 35 - UKH 50 - UKH 95	IECEX KEM06.0029U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	USLKG ***	IECEX KEM06.0035U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	UT ** - UT ** PE	IECEX KEM06.0027U	IEC 60079 0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	S&K **** Ker-Ex	IECEX KEM06.0045U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	AK2 ** - AKE **	IECEX SIR05.0038U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	BK 2...12	IECEX SIR05.0035U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	FX ** - SAK **/EN	IECEX KFM06.0014U	IEC 60079 0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	SAKK 4 - SAKK10	IECEX SIR05.0032U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	ZDU 1.5/**** - ZPE 1.5/****	IECEX ULD05.0009U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	ZDU 2.5N**** - ZPE 2.5N****	IECEX ULD06.0048U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	ZDU ***** ZPE *****	IECEX ULD05.0009U	IEC 60079 0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	WDK ***** - WDK ***** PE	IECEX ULD05.0008U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	WDU ***** - WPE ****	IECEX ULD14.0005U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Weidmuller	Terminals	WDU 2.5/TC *	IECEX SIR05.0039U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	WFF ***	IECEX KFM07.0053U	IEC 60079 0:2004 IEC 60079-7:2001	(1)
WAGO	Terminals	TOP JOB S 2002-***7	IECEX PTB05.0001U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
WAGO	Terminals	TOP JOB S 2004-***7	IECEX PTB05.0033U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
WAGO	Terminals	TOP JOB S 2000-1**7	IECEX PTB11.0093U	IEC 60079-0:2007 IEC 60079-7:2006	(1)
WAGO	Terminals	TOP JOB S 2006-***7	IECEX PTB05.0014U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
WAGO	Terminals	TOP JOB S 2016-***7	IECEX PTB 05.0015U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
WAGO	Terminals	TOP JOB S 2010-***7	IECEX PTB 05.0003U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
WAGO	Terminals	TOP JOB S 2001-***7	IECEX PTB05.0034U	IEC 60079-0:2011 IEC 60079-7:2006	(1)

- (1) No applicable Technical Differences with the last version of the standard IEC 60079-0:2011, IEC 60079-1:2014, IEC 60079-2:2015, IEC 60079-11:2011, IEC 60079-15:2010, IEC 60079-18:2014, IEC 60079-31:2013
- (2) Alternative terminals covered by component certificates could be used if they are suitable to the following relevant parameters in accordance with the final configuration of the product :
- Operating temperature range
  - Ambient temperature range
  - Gas group
  - Maximum voltage and current
  - 20°C resistance value equal or lower than the minimum value of the terminals listed in the table above
  - Certified in accordance with the last version of the applicable standards



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

Certificate No.: **IECEX INE 13.0014X** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 2 Issue 1 (2018-06-18)  
Issue 0 (2013-04-08)  
Date of Issue: 2021-12-23  
Applicant: **BARTEC F.N. S.R.L.**  
Via M. Pagano, 3  
I - 20090 Trezzano sul Naviglio (MI)  
**Italy**  
Equipment: **Enclosures type ESAnA.. and ESXnA..**  
Optional accessory:  
Type of Protection: **ec and tc for enclosures and eb, ec, db, ia, ib, ic, mb, nA, nL for components**  
Marking: According to the specific configuration :  
Ex ec (\*) IIB or IIC T6 or T5 or T4 or T3 Gc  
Ex tc (\*) IIIC T85°C or T100°C or T135°C or T200°C Dc IP66 or IP65  
(\*) : See annexe

Approved for issue on behalf of the IECEX  
Certification Body:

Position:

Signature:  
(for printed version)

Date:



Thierry HOUEIX

Ex Certification Officer

Signé électroniquement  
Digitally signed by  
Thierry HOUEIX  
Ex Certification Officer  
Délégué Certification

2021-12-23

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F-60550 Verneuil-en-Halatte  
France



controlling risks |  
for sustainable development



# IECEX Certificate of Conformity

Certificate No.: **IECEX INE 13.0014X**

Page 2 of 4

Date of issue: 2021-12-23

Issue No: 2

Manufacturer: **BARTEC F.N. S.R.L.**  
Via M. Pagano, 3  
I - 20090 Trezzano sul Naviglio (MI)  
**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 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements  
Edition:6.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

[IEC 60079-15:2010](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:4

[IEC 60079-18:2014](#) Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"  
Edition:4.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

[IEC 60079-7:2015](#) Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

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 Reports:

[FR/INE/ExTR13.0015/00](#)

[FR/INE/ExTR13.0015/01](#)

[FR/INE/ExTR13.0015/02](#)

Quality Assessment Report:

[IT/CES/QAR09.0003/14](#)



# IECEX Certificate of Conformity

Certificate No.: **IECEX INE 13.0014X**

Page 3 of 4

Date of issue: 2021-12-23

Issue No: 2

## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

These enclosures made in light alloy for the type ESAnA... or stainless steel for the type ESXnA... are protected by increased safety "ec" and protected by enclosure "tc" for dust atmosphere. The enclosures are covered by the Ex component certificate IECEx INE 13.0102U.

Enclosures, protected by increased safety "ec", are intended to received terminals and/or bus bar and/or some electrical devices covered by separated IECEx certificates and with different types of protection as defined in the descriptive documents of the manufacturer. They can contain also 'IS' element covered by separated certificates.

Enclosures, protected by enclosure "tc" , are intended to receive the same equipment listed above and/or electrical components not covered by an IECEx certificate and listed in the documentation.They can contain also 'IS' element covered by separated certificates.

The list of the component is defined at the end of the Annex of this certificate.

These enclosures get the degrees of protection IP65 or IP66 according to the IEC 600529 standard and in accordance with degrees of protection of the component installed on the enclosure.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

The enclosures could be used in different ambient temperatures ranges comprised from -60°C up to +160°C following the components fitted on the enclosures and in accordance with the descriptive documents.

The instructions for safe use are completed by those stipulated in the instructions manuals of the manufacturer and of each Ex component fitted on the final product.





# IECEX Certificate of Conformity

Certificate No.: **IECEX INE 13.0014X**

Page 4 of 4

Date of issue: 2021-12-23

Issue No: 2

## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

For the issue n°02:

- Change of the name and address of the applicant and manufacturer
- Update of the marking plates

For the issue n°01:

- Introduction of the ESXnA enclosures type ESXnA150110 and ESXnA 200180
- Extension of the minimum ambient temperature down to -60°C
- Introduction of bus bars
- Update of the list of devices covered by Ex component certificates that could be installed on or inside the enclosures.
- Update of the possibility to install devices covered by Ex full conformity certificates as per conditions defined in the descriptive documents of the manufacturer.
- Application of the standards IEC 60079-7:2015 and IEC 60079-31:2013 for the enclosures and application of the other standards depending on the devices fitted on or inside the enclosures.
- Introduction of specific conditions of uses requiring a "X" at the end of the certificate number.

## **Annex:**

[IECEX INE 13.0014X-02\\_Annex.pdf](#)



# IECEX Certificate of Conformity

Certificate No.: IECEx INE 13.0014X

Issue No.: 02

Page 1 of 6

Annex: IECEx INE 13.0014X-02\_Annex.pdf

## PARAMETERS RELATING TO THE SAFETY

### Enclosures "Ex ec" and "Ex tc" with internal component and/or terminals:

- Maximum supply voltage for Non 'IS' elements : 1100 Vac or Vdc
- Maximum supply voltage for "IS" elements : 250 V
- Wiring section of the terminals : from 1.5 mm<sup>2</sup> up to 300 mm<sup>2</sup>

The maximum dissipated power, maximum number of the terminals and the permissible rated current depend of the type of terminals, the size of the enclosure, the range of ambient temperature and the temperature class. These parameters are described on the descriptive documents.

These enclosures are intended to be used in the following ranges of ambient temperature, in accordance with the temperature class T6/T85°C, T5/T100°C, T4/T135°C or T3/T200°C, the thermal stability of the terminals and the range of ambient temperature of the components installed in the enclosure:

- Minimum ambient temperature from -20°C to -60°C for "Ex ec" and "Ex tc" versions.
- Maximum ambient temperature from +40°C to 80°C for "Ex ec" version using the types of terminals specified in the descriptive documents and "Ex tc"
- Maximum ambient temperature from +40°C to 160°C for "Ex ec" (version using only with the terminals SAK covered by certificate IECEx SIR 05.0032U) and "Ex tc"

### For enclosure with intrinsic safety element:

These versions are intended to be used in range of ambient temperatures from:

- -60°C or -40°C or -20°C to +40°C or +50°C or +60°C

The minimum ambient temperature must be in accordance with the IS components installed inside the enclosures (Barriers, terminals...)

The versions using devices other than terminals can be fitted only when the wiring section of each wire and terminal is 2.5 mm<sup>2</sup> and with a maximum current of 6 A. These configurations are only for a maximum ambient temperature 60°C.

### Enclosures "Ex ec" and "Ex tc" with bus bar:

Maximum supply voltage : 750 V  
 Maximum intensity : see table below

Max current (Size of bar)	Max. Ambient temperature	Temperature class for ESAnA	Temperature class for ESXnA
85 A (48 mm <sup>2</sup> ) 160 A (100 mm <sup>2</sup> ) 275 A (250 mm <sup>2</sup> )	+100°C	T4/T135°C	T3/T200°C
130 A (48 mm <sup>2</sup> ) 200 A (100 mm <sup>2</sup> ) 400 A (250 mm <sup>2</sup> )	+80°C	T4/T135°C	T3/T200°C
300 A (250 mm <sup>2</sup> )	+55°C	T5/T100°C	-
300 A (250 mm <sup>2</sup> )	+60°C	-	T4/T135°C

The maximum number of the bars and the permissible rated current depend of the size of the enclosure, the range of ambient temperature and the temperature class. These parameters are described on the descriptive documents.

The enclosures including bars are intended to be used in the range of ambient temperature from -60°C up to 100°C for "Ex ec" version and "Ex tc".

### Enclosures "Ex tc" with internal component and/or terminals:

- Maximum supply voltage for Non 'IS' elements : 1100 Vac or Vdc
- Maximum supply voltage for "IS" elements : 250 V

Maximum power dissipated is indicated on the descriptive documentation in accordance with the size of enclosure, the temperature class and the ambient temperature.



# IECEX Certificate of Conformity

Certificate No.: IECEx INE 13.0014X

Issue No.: 02

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Annex: IECEx INE 13.0014X-02\_Annex.pdf

## **MARKING**

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

### **A – Enclosure “Ex ec” and “tc” fitted only with terminals or bars:**

BARTEC FN (1)

I - 20090 Trezzano Sul Naviglio (MI)

ESAnA... or ESXnA... (2)

IECEX INE 13.0014X

(Serial number)

Ex ec (3) IIB or IIC T6 or T5 or T4 or T3 Gc

Ex tc IIIC T85°C or T100°C or T135°C or T200°C Dc IP66 or IP65

...°C ≤ Tamb ≤ ...°C (4)

T. cable = (5)

(Rated voltage and rated current and/or rated power)

**WARNING: DO NOT OPEN WHEN ENERGIZED**

- (1) Optional Brands “BARTEC FEAM” or “BARTEC NASP” can be added in the marking with the sentence “manufactured by BARTEC FN”.
- (2) Type is completed by numbers corresponding to the size of the enclosure.
- (3) The marking code Ex could be completed by the indication of the type of protection “ia”, “ib” or “ic” in accordance with the type of terminals inside the enclosures.
- (4) Indication of the range of temperature ambient if different from -20°C to +40°C.
- (5) Indication when the temperature is higher than 70°C.

### **B – Enclosure “Ex ec” and “tc” fitted with terminals and components:**

BARTEC FN (1)

I - 20090 Trezzano Sul Naviglio (MI)

ESAnA... or ESXnA... (2)

IECEX INE 13.0014X

(Serial number)

Ex (3) ec (4) IIB or IIC T6 or T5 or T4 Gc

Ex tc (5) IIIC T85°C or T100°C or T135°C Dc IP66 or IP65

...°C ≤ Tamb ≤ ...°C (6)

T. cable = (7)

(Rated voltage and rated current and/or rated power)

**WARNING: DO NOT OPEN WHEN ENERGIZED**

- (1) Optional Brands “BARTEC FEAM” or “BARTEC NASP” can be added in the marking with the sentence “manufactured by BARTEC FN”.
- (2) Type is completed by numbers corresponding to the size of the enclosure.
- (3) The marking code Ex is completed by the indication of the type of protection of the component installed in the enclosure in the alphabetical order.
- (4) When the enclosure is fitted with intrinsic safety element: [ia IIA or IIB or IIC Ga] or [ib IIA or IIB or IIC Gb] or [ic IIA or IIB or IIC]
- (5) When the enclosure is fitted with intrinsic safety element: [ia Da] or [ib Db] or [ic]
- (6) Indication of the range of ambient temperature if different from -20°C to +40°C.
- (7) Indication when the temperature is higher than 70°C.



# IECEx Certificate of Conformity

Certificate No.: IECEx INE 13.0014X

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Annex: IECEx INE 13.0014X-02\_Annex.pdf

## **C – Enclosure “Ex tc” for dust protection:**

BARTEC FN (1)

I - 20090 Trezzano Sul Naviglio (MI)

ESAnA... or ESXnA... (2)

IECEx INE 13.0014X

(Serial number)

Ex tc IIIC T85°C or T100°C or T135°C or T200°C Dc

IP66 or IP65

...°C ≤ Tamb ≤ ...°C (3)

T. cable = (4)

**WARNING: DO NOT OPEN WHEN ENERGIZED**

- (1) Optional Brands “BARTEC FEAM” or “BARTEC NASP” can be added in the marking with the sentence “manufactured by BARTEC FN”.
- (2) Type is completed by numbers corresponding to the size of the enclosure.
- (3) Indication of the range of ambient temperature if different from -20°C to +40°C.
- (4) 90°C for T100°C or 120°C for T135°C or 200°C for T200°C.

## **ROUTINE EXAMINATIONS AND TESTS**

In accordance with clause 7.1 of the IEC 60079-7 standard, a dielectric strength test on each of the different circuits of the connection units, performed according to the relevant standards, the supply voltage shall be applied during one minute.



# IECEx Certificate of Conformity

Certificate No.: IECEx INE 13.0014X

Issue No.: 02

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Annex: IECEx INE 13.0014X-02\_Annex.pdf

## LIST OF THE COMPONENT INTENDED TO BE INSTALLED ON THE MOTOR AND/OR TERMINAL BOXES

Manufacturer	Type operating device	Code	IECEx Certificate number	Standards edition	Statement of the older editions of the standard
BARTEC GmBH	Control and signalling device adapters	05-0003-00**/****	IECEx PTB 8.0037U	IEC 60079-0:2011 IEC 60079-31:2008 IEC 60079-7:2006	(1)
BARTEC GmBH	Control and signalling device adapters	05-0003-00**/****	IECEx CML 14.0005U	IEC 60079-0:2011 IEC 60079-31:2013 IEC 60079-7:2015	(1)
BARTEC GmBH	Circuit module and control circuit switch	07-3321-1... 07-3323-1... 07-3331-1...	IECEx CML 17.0045U	IEC 60079-0:2011 IEC 60079-1:2014 IEC 60079-7:2015	(1)
BARTEC GmBH	Lamp and illuminated indicator module	07-335*-*..	IECEx CML 17.0046U	IEC 60079-0:2011 IEC 60079-1:2014 IEC 60079-11:2011 IEC 60079-7:2015	(1)
BARTEC GmBH	Illuminated push button	07-336*-*..	IECEx CML 17.0046U	IEC 60079-0:2011 IEC 60079-1:2014 IEC 60079-11:2011 IEC 60079-7:2015	(1)
CEAG GmbH	Moving-iron voltmeter Moving-iron amperemeter Moving-coil amperemeter (only intrinsic safety protection)	VM 45 VM 72 AM 45 AM 72	IECEx BKI 07.0016U	IEC 60079-0:2004 IEC 60079-11:1999 IEC 60079-18:1992 IEC 60079-7:2001	(1)
NUOVA ASP	Ammeter	AM**	IECEx LCIE 13.0008U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
FEAM	Ammeter	AM**	IECEx LCIE 13.0009U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
NUOVA ASP	Explosion-proof control switch	IRE-*	IECEx LCIE 13.0004U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
FEAM	Explosion-proof control switch	IRE-*	IECEx LCIE 13.0005U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
NUOVA ASP	Flameproof button	PBE-*	IECEx LCIE 13.0006U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
FEAM	Flameproof button	PBE-*	IECEx LCIE 13.0007U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
NUOVA ASP	Explosion proof indicator	LIE-*	IECEx LCIE 13.0017U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
FEAM	Explosion proof indicator	LIE-*	IECEx LCIE 13.0018U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
NUOVA ASP	Breather and draining valve	ECDE1**	IECEx EXA 14.0005U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006 IEC 60079-31:2013	(1)
FEAM	Breather and draining valve	ECDE1**	IECEx EXA 14.0004U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006 IEC 60079-31:2013	(1)
FENEX	Breather and draining valve	ECDE1**	IECEx EXA 14.0006U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006 IEC 60079-31:2013	(1)
Pepperl & Fuchs GmbH	Multifunctional terminal	MFT-***	IECEx BKI 08.0008U	IEC 60079-0:2004 IEC 60079-1:2003 IEC 60079-7:2001	(1)
Quintex GmbH	Explosion proof switch module	QX0201	IECEx EPS 11.0011U	IEC 60079-0:2007 IEC 60079-1:2007 IEC 60079-7:2006 IEC 61241-0:2004 IEC 61241-1:2004	(1)
Quintex GmbH	Explosion proof signal lamp module	QX0202	IECEx EPS 11.0012U	IEC 60079-0:2007 IEC 60079-1:2007 IEC 60079-7:2006 IEC 61241-0:2004 IEC 61241-1:2004	(1)



# IECEx Certificate of Conformity

Certificate No.: IECEx INE 13.0014X

Issue No.: 02

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Annex: IECEx INE 13.0014X-02\_Annex.pdf

Manufacturer	Type operating device	Code	IECEx Certificate number	Standards edition	Statement of the older editions of the standard
Quintex GmbH	Explosion proof potentiometer module	QX0203	IECEx EPS 11.0013U	IEC 60079-0:2007 IEC 60079-1:2007 IEC 60079-7:2006 IEC 61241-0:2004 IEC 61241-1:2004	(1)
Quintex GmbH	Explosion proof ammeter module	QX0205	ECEEx EPS 11.0014U	IEC 60079-0:2007 IEC 60079-7:2006 IEC 61241-0:2004 IEC 61241-1:2004	(1)
Quintex GmbH	Explosion proof signal lamp with button module	QX0212	IECEx EPS 11.0015U	IEC 60079-0:2007 IEC 60079-1:2007 IEC 60079-7:2006 IEC 61241-0:2004 IEC 61241-1:2004	(1)
STAHL GmbH	Push button for panel	8003/1.2*** 8003/1.4***	IECEx PTB 06.0066U	IEC 60079-0:2004 IEC 60079-1:2001 IEC 60079-7:2001	(1)
STAHL GmbH	Control switch / switch-Disconnector	8008/2-***	IECEx PTB 06.0010U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
STAHL GmbH	Indicator light for panel	8010/**	IECEx PTB 06.0016U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-11:2011 IEC 60079-7:2006	(1)
STAHL GmbH	Indicator light for panel	8013/2-**- 8013/4-**-*	IECEx PTB 07.0012U	IEC 60079-0:2004 IEC 60079-1:2001 IEC 60079-11:1999 IEC 60079-18:1992 IEC 60079-7:2006	(1)
STAHL GmbH	Contact element / isolating terminal	8082/1-*.**-	IECEx PTB 06.0011U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
STAHL GmbH	Control unit (potentiometer)	8208/**.**-	IECEx PTB 06.0032U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
STAHL GmbH	Amperemeter Voltmeter	8403/2-*** 8404/4-*** 8405/2-***	IECEx PTB 06.0017U	IEC 60079-0:2000 IEC 60079-18:1992 IEC 60079-7:2001	(1)
STAHL GmbH	Control units with resistor	8453/*	IECEx PTB 06.0031U	IEC 60079-0:2011 IEC 60079-1:2007 IEC 60079-7:2006	(1)
STAHL GmbH	Potentiometer for panel	8455/4	IECEx PTB 07.0001U	IEC 60079-0:2004 IEC 60079-1:2001 IEC 60079-18:1992 IEC 60079-7:2001	(1)
STAHL GmbH	Command and signalling adapters	8602/-*	IECEx PTB 06.0014U	IEC 60079-0:2011 IEC 60079-31:2008 IEC 60079-7:2006	(1)
ABB-Entelec	Terminals	ZS** - ZS**-PE	IECEx LCI08.0031U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Cabur	Terminals	CBC**	IECEx CES09.0002U	IEC 60079-0:2004 IEC 60079-0:2007 IEC 60079-7:2006	(1)
Cabur	Terminals	CBD.**	IECEx CES09.0009U	IEC 60079-0:2004 IEC 60079-7:2006	(1)
Cabur	Terminals	TEO.* - TED.* - TE.*/*	IECEx CES09.0010U	IEC 60079-0:2004 IEC 60079-7:2006	(1)
Cabur	Terminals	TC/DIN - TC/PO	IECEx CES11.0020U	IEC 60079-0:2007 IEC 60079-7:2006	(1)
Phoenix	Terminals	MBK 2.5/E	IECEx KEM07.0016U	IEC 60079-0:2004 IEC 60079-7:2006	(1)
Phoenix	Terminals	QTC 1.5 - QTC 1.5 - PE	IECEx KEM07.0015U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	QTC 2.5 - QTC 2.5 - PE	IECEx KEM07.0010U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	ST 1.5 - ST 1.5 - PE	IECEx KEM06.0043U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	ST 2.5 - ST 2.5 - PE	IECEx KEM06.0051U	IEC 60079-0:2011 IEC 60079-7:2006	(1)



# IECEX Certificate of Conformity

Certificate No.: IECEx INE 13.0014X

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Manufacturer	Type operating device	Code	IECEX Certificate number	Standards edition	Statement of the older editions of the standard
Phoenix	Terminals	ST 4 - ST 6 - ST 4-PE - ST 6-PE	IECEX KEM06.0050U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	ST 10 - ST 16 - ST 35 - ST 10-PE - ST 16-PE - ST 35-PE	IECEX KEM06.0033U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	UK 1.5N - UK 2.5N - UK 3N - UK 5N - UK 6N	IECEX KEM06.0034U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	UK 10N - UK 16N - UK 35 - UKH 50 - UKH 95	IECEX KEM06.0029U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	USLKG ***	IECEX KEM06.0035U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	UT ** - UT **-PE	IECEX KEM06.0027U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Phoenix	Terminals	SSK **** Ker -Ex	IECEX KEM06.0045U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	AKZ ** - AKE **	IECEX SIR05.0038U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	BK 2...12	IECEX SIR05.0035U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	EK ** - SAK **/EN	IECEX KEM06.0014U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	SAKK 4 - SAKK10	IECEX SIR05.0032U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	ZDU 1.5/**** - ZPE 1.5/****	IECEX ULD05.0009U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	ZDU 2.5N**** - ZPE 2.5N****	IECEX ULD06.0048U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	ZDU **** - ZPE ****	IECEX ULD05.0009U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	WDK **** - WDK **** PE	IECEX ULD05.0008U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	WDU **** - WPE ****	IECEX ULD14.0005U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
Weidmuller	Terminals	WDU 2.5/TC *	IECEX SIR05.0039U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
Weidmuller	Terminals	WFF ***	IECEX KEM07.0053U	IEC 60079-0:2004 IEC 60079-7:2001	(1)
WAGO	Terminals	TOP JOB S 2002-****7	IECEX PTB03.0004U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
WAGO	Terminals	TOP JOB S 2004-****7	IECEX PTB05.0033U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
WAGO	Terminals	TOP JOB S 2000-1****7	IECEX PTB11.0093U	IEC 60079-0:2007 IEC 60079-7:2006	(1)
WAGO	Terminals	TOP JOB S 2006-****7	IECEX PTB05.0014U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
WAGO	Terminals	TOP JOB S 2016-****7	IECEX PTB 05.0015U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
WAGO	Terminals	TOP JOB S 2010-****7	IECEX PTB 06.0003U	IEC 60079-0:2011 IEC 60079-7:2006	(1)
WAGO	Terminals	TOP JOB S 2001-****7	IECEX PTB05.0034U	IEC 60079-0:2011 IEC 60079-7:2006	(1)

- (1) No applicable Technical Differences with the last version of the standard IEC 60079-0:2011, IEC 60079-1:2014, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-15:2010, IEC 60079-18:2014, IEC 60079-31:2013
- (2) Alternative terminals covered by component certificates could be used if they are suitable to the following relevant parameters in accordance with the final configuration of the product :
- Operating temperature range
  - Ambient temperature range
  - Gas group
  - Maximum voltage and current
  - 20°C resistance value equal or lower than the minimum value of the terminals listed in the table above
  - Certified in accordance with the last version of the applicable standards