



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

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

**PTB 11 ATEX 1010 X**

(4) Equipment: Control-, Switch- and Indication Module, type 07-33\*3-5\*\*\*\*/\*\*\*\*

(5) Manufacturer: BARTEC GmbH

(6) Address: Max-Eyth-Straße 16, 97980 Bad Mergentheim, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential assessment and test report PTB Ex 11-11016.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 60079-0:2009    EN 60079-1:2007    EN 60079-7:2007    EN 60079-31:2009**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:

 **II 2 G Ex d e IIC T6 Gb**

 **II 2 D Ex tb IIIC T80°C Db IP66**

Zertifizierungssektor Explosionsschutz  
On behalf of PTB:

Braunschweig, May 6, 2011

  
Dr.-Ing. U. Klausmeyer  
Direktor und Professor

(13)

## SCHEDULE

(14)

### EC-TYPE-EXAMINATION CERTIFICATE PTB 11 ATEX 1010 X

(15) Description of equipment

The explosion-proof control, switch- and indication module, type 07-33\*3-5\*\*\*/\*, will be installed stationary in a manner that it is protected from risk of mechanical damage and electrostatic charging. Together with a separately certified actuator element it is used for closing and opening electrical circuits respectively for signalling operating conditions with the different colours of the light source installed.

Connection is via "Ex" cable gland which has a separate test certificate.

#### Technical data

##### Nomenclature

Nomenclature	07 - 33 * 3 - 5 * * * /****
Common code number	1 2,3 4 5 6 7 8 9 10

- |      |   |
|------|---|
| 1    | 07: ID number for programme, basic programme ExCo   |
| 2,3  | 33: Control- and signal unit module   |
| 4    | Module type<br>2 = switch module 07-3323-4***/*, PTB 99 ATEX 1043 U<br>5 = illuminated indicator module 07-3353-4***/*, PTB 97 ATEX 1064 U<br>6 = illuminated push button module 07-3363-4***/*, PTB 97 ATEX 1064 U<br>7 = control- and switching unit 07-3373-4***/*, PTB 05 ATEX 1064 U |
| 5    | Type of equipment<br>3 = Front installation   |
| 6    | Type of connection<br>5 = Junction box with threaded connection   |
| 7    | Design<br>0...9, A...Z = subject to the type of module  |
| 8    | LED- colour<br>0...9, A...Z = subject to type of module   |
| 9,10 | Actuator element and other characteristics<br>irrelevant for the type of protection   |

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

## SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 11 ATEX 1010 X

### Electrical data

Cross section max. 2.5 mm<sup>2</sup>

For all other electrical ratings, reference is made to the certificates for the various Ex- components

### Ambient temperature range

Maximum permissible ambient temperatures:  $-55\text{ °C} \leq T_a \leq 60\text{ °C}$

The temperature range for the different modules is to be taken subject to the electrical ratings from the certificates of the corresponding Ex-components as stated in the table below.

Module type	Certificate number Component	Component type	Max. operating temperature <sup>1</sup>
07-3323-5***/*	PTB 99 ATEX 1043 U	07-3323-4***/*	85°C
07-3353-5***/*	PTB 97 ATEX 1064 U	07-3353-4***/*	85°C
07-3363-5***/*	PTB 97 ATEX 1064 U	07-3363-4***/*	85°C
07-3373-5***/*	PTB 05 ATEX 1064 U	07-3373-4***/*	85°C

<sup>1</sup> The maximum operating temperature is the sum of the maximum ambient temperature, the external heat and the self-heating.

(16) Assessment and test report PTB Ex 11-11016

(17) Special conditions for safe use

The control-, switch- and indication module has to be installed in a manner that it is protected from risk of mechanical damage and electrostatic charges.

(18) Essential health and safety requirements

Met by compliance with the afore-mentioned standards.

Zertifizierungssektor Explosionsschutz  
On behalf of PTB:



Braunschweig, May 6, 2011

Dr.-Ing. U. Klausmeyer  
Direktor und Professor.



**1st SUPPLEMENT**  
according to Directive 94/9/EC Annex III.6  
**to EC-TYPE-EXAMINATION CERTIFICATE PTB 11 ATEX 1010 X**  
**(Translation)**

Equipment: Control, switch and indication module, type 07-33\*3-5\*\*\*/\*

Marking:  II 2 G Ex d e IIC T6 Gb  
 II 2 D Ex tb IIC T80°C Db IP66

Manufacturer: BARTEC GmbH

Address: Max-Eyth-Straße 16, 97980 Bad Mergentheim, Germany

Description of supplements and modifications

- 1) The standards have been adapted
- 2) Ex marking in accordance with EN 60079-0:2012
- 3) Ex marking in accordance with EN 60079-1:2014
- 4) Ex marking in accordance with EN 60079-11:2012
- 5) Ex marking in accordance with EN 60079-31:2014
- 6) The separately certified illuminated buttons and lamp modules of the intrinsically safe type are included.
- 7) The marking for the unit can in the future also be provided as a moulded engraving of a form tool, or as a laser mark on the enclosure.

## 1st SUPPLEMENT TO EC-TYPE-EXAMINATION CERTIFICATE PTB 11 ATEX 1010 X

### Technical data

#### Type code

Type code	07 - 33 * 3 - 5 * * * /****
Code number	1 2.3 4 5 6 7 8 9 10

- 1 07: code for programme, basic programme ExCo
- 2.3 33: control and indication module
- 4 Type of module  
2 = switch module 07-3323-4\*\*\*/\*\*\*\*, PTB 99 ATEX 1043 U  
5 = lamp module 07-3353-4\*\*\*/\*\*\*\*, PTB 97 ATEX 1064 U  
6 = illuminated button 07-3363-4\*\*\*/\*\*\*\*, PTB 97 ATEX 1064 U  
7 = control and switching unit 07-3373-4\*\*\*/\*\*\*\*, PTB 05 ATEX 1064 U
- 5 Device type  
3 = front installation
- 6 Connection type  
5 = Junction box with threaded connection
- 7 Design  
0...9, A...Z = subject to the type of module
- 8 LED colour  
0...9, A...Z = subject to the type of module
- 9.10 Actuator element and other characteristics that are of relevance for the type of protection

### Electrical data

Rated cross section max. 2.5 mm<sup>2</sup>

For all other electrical ratings, reference is made to the certificates for the different "Ex" components.

**1st SUPPLEMENT TO EC-TYPE-EXAMINATION CERTIFICATE PTB 11 ATEX 1010 X**

Ambient temperatures

Maximum permissible ambient temperatures:  $-55^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$

The temperature range that applies to the different modules follows from the certificates of the corresponding Ex components and depends on the electrical ratings.

Module type	Certificate number Component	Component type	Max. operating temperature <sup>1</sup>
07-3323-5***/**	PTB 99 ATEX 1043 U	07-3323-4***/**	85°C
07-3353-5***/**	PTB 97 ATEX 1064 U	07-3353-4***/**	85°C
07-3363-5***/**	PTB 97 ATEX 1064 U	07-3363-4***/**	85°C
07-3373-5***/**	PTB 05 ATEX 1064 U	07-3373-4***/**	85°C

<sup>1</sup> The maximum operating temperature is composed of the sum total of the maximum ambient temperature, the external heat, and the self-heating rate.

Evaluation and Test Report PTB Ex 15-15042

Special conditions for safe use

The control, switch and indication module shall be installed, so it will be protected against the risk of mechanical damage and electrostatic charging.

Applied standards

EN 60079-0:2012, EN 60079-1:2014, EN 60079-7:2007, EN 60079-11:2012,  
 EN 60079-31:2014

With the application of the above standards, the marking changes to:

-  II 2 G Ex db e IIC T6 Gb
-  II 2 G Ex db e ia IIC T6 Gb
-  II 2 D Ex tb IIIC T80 C Db
-  II 2 D Ex tb ia IIIC T80 °C Db

Test report: PTB Ex 15-15042

Konformitätsbewertungsstelle, Sektor Explosionsschutz  
 On behalf of PTB:

Braunschweig, August 21, 2015

Dr.-Ing. U. Klausmeyer  
 Direktor und Professor

