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

Certificate No.: IECEx CML 17.0046U

Issue No: 0

Certificate history:
Issue No. 0 (2017-08-09)

Status: **Current**

Date of Issue: **2017-08-09**

Applicant: **BARTEC GmbH**
Max-Eyth-Strabe 16
97980 bad Mergentheim
Germany

Equipment: **Illuminated Indicator Module Type 07-335*-****/**** & Illuminated Push Button Type 07-336*-****/****

Optional accessory:

Type of Protection: **Flameproof, Increased Safety, Intrinsic Safety**

Marking:

Ex db eb I Mb

Ex db eb ia I Mb

Ex db eb IIC Gb

Ex db eb ia IIC Gb

-55°C ≤ Ta ≤ +50°C

-55°C ≤ Ta ≤ +60°C (if rated operating voltage ≤ 26.4 V)

Approved for issue on behalf of the IECEx Certification Body: A C Smith

Position: Technical Operations Director

Signature:
(for printed version)

Date: 2017-08-09

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.

Certificate issued by:

Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

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Manufacturer: **BARTEC GmbH**
Max-Eyth-Strabe 16
97980 bad Mergentheim
Germany

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:

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 60079-7 : 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:

GB/CML/ExTR17.0124/00

Quality Assessment Report:

DE/TUN/QAR06.0017/09

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Illuminated Indicator Module Type 07-335x-xxxx/xxxx & Illuminated Push Button Type 07-336x-xxxx/xxxx

Refer to Annex for full description.

Schedule of Limitations

1. The components are to be installed in an enclosure which meets the requirements of a recognised type of protection as specified in Section 1 of IEC 60079-0.
2. When the components are installed in an increased safety enclosure that complies with IEC 60079-7, the creepage and clearance distances must comply with the requirements of Table 1.
3. The components may be operated in an intrinsically safe or a non-intrinsically safe operation mode. The operation mode is specified in line with the specification of the product by the end user during installation. When the operation mode or the corresponding marking have been selected, these shall be permanent and shall not be changed during the entire life of the component.

SPECIFIC CONDITIONS OF USE: NO

Annex:

IECEx CML 17.0046U Certificate Annex.pdf

Annexe to:	**IECEx CML 17.0046U Iss. 0**
Applicant:	**Bartec GmbH**
Apparatus:	**Illuminated Indicator Module Type 07-335*-****/****** **Illuminated Push Button Type 07-336*-****/****

Product Description

The illuminated indicator module type 07-335*-****/**** is a build-in appliance and serves as a signal lamp. The luminescent element is available in a variety of signal colours.

The illuminated push button module type 07-336*-****/**** is an illuminated indicator with the function of a control switch. The connection is via the integrated terminals.

Electrical Data		
Rated operating voltage	12 V to 250 V AC	12 V to 60 V DC
Cross section max.	2.5 mm^2	
Applicable to variants with intrinsically safe operation mode		
Type code	07-33**-*4**/**** 07-33**-*5**/**** 07-33**-*6**/****	
Supply circuit (terminals X1, X2)	type of protection Intrinsic Safety Ex ia IIC or Ex ia I only for connection to a certified intrinsically safe circuit	
Maximum values		
U_i	30 V	
I_i	150 mA	
P_i	1 W	
C_i L_i	Negligibly low	

Model Number		
		07 - 3 3 * * - * * * * / ****
Code Number	Type	1 - 2 3 4 5 - 6 7 8 9 / 10
1	Program	07 = common code number
2, 3	Product Sector	33 = code for control and indicator module
4	Function	5 = Illuminated Indicator Module 6 = Illuminated Push Button
5	Fixture	1 = bottom

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		3 = front
6	Mounting	1 = Screw terminals 4 = Screw terminals 15°
7	Switch	1 = AC 12 to 250 V; DC 12 to 60 V 7 = AC 12 to 250 V; DC 12 to 60 V one opening contact 8 = DC 12 to 60 V; one closing contact 4 = AC / DC 12 to 250 V 5 = AC / DC 12 to 250 V; one opening contact 6 = AC / DC 12 to 150 V; one closing contact
8	LED Colour	1 = red 2 = green 3 = yellow 4 = white 5 = blue
9, 10	Applications	Variants without influence of explosion protection

Conditions of Manufacture

There are no conditions of manufacture.

Schedule of Limitations

The following are schedule of limitations:

i. The components are to be installed in an enclosure which meets the requirements of a recognised type of protection as specified in Section 1 of EN/IEC 60079-0.
ii. When the components are installed in an increased safety enclosure that complies with EN/IEC 60079-7, the creepage and clearance distances must comply with the requirements of Table 1.
iii. The components may be operated in an intrinsically safe or a non-intrinsically safe operation mode. The operation mode is specified in line with the specification of the product by the end user during installation. When the operation mode or the corresponding marking have been selected, these shall be permanent and shall not be changed during the entire life of the component.