



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

Certificate No.: **IECEX CML 17.0055X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2017-10-24)

Status: **Current** Issue No: 1

Date of Issue: 2021-11-04

Applicant: **BARTEC GmbH**
Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany

Equipment: **Control, Switching and Display Module, Type 07-33*3-5***/******

Optional accessory:

Type of Protection: **Flameproof "db", Increased Safety "eb", Intrinsic Safety "ia", Dust Ignition Protection "tb"**

Marking: Ex db eb IIC T6 Gb or Ex db eb ia IIC T6 Gb
Ex tb IIIC T80°C Db* IP66 or Ex tb ia IIIC T80°C Db* IP66
Ta = -55°C to +40/+50/+60°C

** Note: For type 07-33*3-5***/**** to be used in an explosive dust atmosphere, it is mandatory that component, type 05-0003-00***/****, is fitted to the equipment. Refer to Specific Conditions of Use.*

Approved for issue on behalf of the IECEx
Certification Body:

A Snowdon MIET

Position:

Assistant Certification Manager

Signature:
(for printed version)

Date:

2021-11-04

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.
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Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Manufacturer: **BARTEC GmbH**
Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany

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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

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 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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:

[GB/CML/ExTR17.0170/00](#)

[GB/CML/ExTR21.0254/00](#)

Quality Assessment Report:

[DE/TUN/QAR06.0017/13](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The control, switching and display module type 07-33*3-5***/**** is used in fixed installations where it is protected from mechanical damage and electrostatic charging.

For full description and conditions of manufacture, see certificate Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex for Specific Conditions of Use.



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

This issue introduces the following modifications:

- i. Update of IEC 60079-0 to latest Edition.
- ii. Update of IEC 60079-7 to latest Edition.
- iii. Update to include control and signalling device adapter, type 05-0003-00**/****.
- iv. Added specific condition of use

Annex:

[IECEX CML 17.0055X Certificate Annex Issue 1.pdf](#)

Annexe to: IECEx CML 17.0055X Issue 1
Applicant: Bartec GmbH
Apparatus: Control, Switching and Display Module, Type 07-33*3-5**/****

Description

The control, switching and display module type 07-33*3-5**/**** is used in fixed installations where it is protected from mechanical damage and electrostatic charging. It incorporates one of the following component certified elements: Switch module 07-3323-4**/**** (IECEX CML 17.0045U), Lamp module 07-3353-4**/**** (IECEX CML 17.0046U), Illuminated push button 07-3363-4**/**** (IECEX CML 17.0046U) or Control and switching device 07-3373-4**/**** (IECEX CML 17.0057U). Connection is by means of a separately certified “Ex” cable gland.

The housing is designed as a ring in the front area. In conjunction with a latch, the control, switching and display module can be attached to a separately certified Control and signalling device adapter of type 05-0003-00**/**** (IECEX CML 14.0005U) located in the front panel of a housing.

The following models are covered by this certificate,

Type code	07	-	3	3	*	3	-	5	*	*	*	/	*	*	*	*
Code number	A		B	C	D	E		F	G	H	I		J	K	L	M

Eurofins E&E CML Limited
 Newport Business Park
 New Port Road
 Ellesmere Port
 CH65 4LZ

T +44 (0) 151 559 1160
 E info@cmllex.com

www.cmllex.com

Company Reg No. 8554022 VAT No. GB163023642



Code	Number for:	Variation:	Description
A	Basic range	07	ExCo
B,C	Product	33	Control and indicator module
D	Module	2	Switch module 07-3323-4 ^{***} / ^{****}
		5	Lamp module 07-3353-4 ^{***} / ^{****}
		6	Illuminated button 07-3363-4 ^{***} / ^{****}
		7	Control and switching device 07-3373-4 ^{***} / ^{****}
E	Device type	3	Front panel installation
F	Connection	5	Junction box with screw connection
G	Version	0...9, A...Z	Depending on type of module
H	LED colour	0...9, A...Z	Depending on type of module
I - M	Digits not affecting explosion protection		

Technical data:

Electrical data:

Cross section max. 2.5mm²

For all other electrical data refer to IECEx CoC's of the Ex Components used

Ambient temperature range:

Max. ambient temperature range -55°C ≤ Ta ≤ +60°C

The temperature range for every module is to be taken from the corresponding IECEx CoC of the Ex Component used as stated in the table below.

Module type	IECEx CoC (Component)	Component type	Max. Service temperature ¹
07-3323-5 ^{***} / ^{****}	IECEx CML 17.0045U	07-3323-4 ^{***} / ^{****}	+85°C
07-3353-5 ^{***} / ^{****}	IECEx CML 17.0046U	07-3353-4 ^{***} / ^{****}	+85°C
07-3363-5 ^{***} / ^{****}	IECEx CML 17.0046U	07-3363-4 ^{***} / ^{****}	+85°C
07-3373-5 ^{***} / ^{****}	IECEx CML 17.0057U	07-3373-4 ^{***} / ^{****}	+85°C
07-33*3-5 ^{***} / ^{****}	IECEx CML 14.0005U	05-0003-00 ^{**} / ^{****}	+70°C

¹ The maximum service temperature is the sum of maximum ambient temperature, external heat and self-generated temperature.

Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.

Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- i. The control, switching and display module shall be installed such that it is protected from risk of mechanical damage and electrostatic charges.
- ii. The control, switching and display module, when used in a potentially explosive dust atmosphere (Group III), requires a separately certified control and signalling device adapter of type 05-0003-00**/**** (IECEX CML 14.0005U / CML 13ATEX3010U) to be fitted. If this adapter is not fitted, the equipment shall not be used in Group III atmospheres.

Components covered by Ex Certificates issued to older editions of Standards

Certificate number	Standards (incl Ed)	Assessment result
IECEX CML 17.0045U	IEC 60079-0 Ed 7 IEC 60079-1 Ed 7 IEC 60079-7 Ed 5.1	No applicable technical differences. The component is assessed to the latest editions of the standard.
IECEX CML 17.0046U	IEC 60079-0 Ed 7 IEC 60079-1 Ed 7 IEC 60079-7 Ed 5.1 IEC 60079-11 Ed 6	No applicable technical differences. The component is assessed to the latest editions of the standard.
IECEX CML 17.0057U	IEC 60079-0 Ed 6 IEC 60079-1 Ed 7 IEC 60079-7 Ed 5	Technical differences evaluated and found satisfactory. For detail see ExTR GB/CML/ExTR21.0254/00
IECEX CML 14.0005U	IEC 60079-0 Ed 7 IEC 60079-7 Ed 5.1 IEC 60079-31 Ed 2	No applicable technical differences. The component is assessed to the latest editions of the standard.