



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 14.0029X

Issue No: 8

Certificate history:

Issue No. 8 (2019-08-05)

Issue No. 7 (2018-03-13)

Issue No. 6 (2018-01-25)

Issue No. 5 (2017-08-29)

Issue No. 4 (2017-03-09)

Issue No. 3 (2016-12-12)

Issue No. 2 (2015-08-06)

Issue No. 1 (2015-02-09)

Issue No. 0 (2014-10-08)

Status: **Current**

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Date of Issue: **2019-08-05**

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

Equipment: **07-351*-***** ComEx Control and Indicating Devices**

Optional accessory:

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

Marking:
Ex db eb IIC T6 Gb or Ex db eb ia IIC T6 Gb
Ex tb IIIC T80°C Db
-55°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx
Certification Body:

R C Marshall

Position:

Certification Officer

Signature:
(for printed version)

Date:

2019-08-05

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:

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-Staße 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 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 60079-31 : 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:

GB/CML/ExTR14.0016/00	GB/CML/ExTR15.0008/00	GB/CML/ExTR15.0057/00
GB/CML/ExTR16.0177/00	GB/CML/ExTR17.0033/00	GB/CML/ExTR17.0161/00
GB/CML/ExTR17.0177/00	GB/CML/ExTR18.0068/00	GB/CML/ExTR19.0131/00

Quality Assessment Report:

[DE/TUN/QAR06.0017/10](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The ComEx are either single, double or triple control and/or indicating display stations.

The three standard thermoplastic enclosures, single (07-3511-* and 07-3514-*), double (07-3512-* and 07-3515-*) and triple (07-3513-* and 07-3516-*) can be combined with various separately certified actuators, switch modules and luminous modules.

The control and display stations may be optionally provided with cable glands and blanking elements, as well as an earthing plate.

Refer to Annex for full description and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for Specific Conditions of Use.



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

Issue 1

This issue introduced the following change:

- i. To allow an alternative sealing material to be used

Issue 2

This issue introduced the following change:

- i. To correct a typographic error and clarify the approval standards

Issue 3

This issue introduced the following changes:

- i. To update certification drawings to reflect changes in enclosure manufacturing.
- ii. To update certificate to the latest standard editions.

Issue 4

This issue introduced the following change:

- i. To update drawings and manufacturing details for the locking device.

Issue 5

This issue introduced the following changes:

- i. The introduction of an alternative enclosure profile.
- ii. Clarification of the cable gland size options in the series type reference table on the certificate.

Issue 6

This issue introduced the following changes:

- i. The introduction of an alternative non-metallic sealing material between enclosures.
- ii. The introduction of an alternative metallic plug between enclosures.

Issue 7

This issue introduced the following change:

- i. The introduction of an alternative non-metallic sealing material between enclosures.

Issue 8

This issue introduced the following change:

- i. To update the certificate to include the 4-pole switch module covered under certificate number IECEx CML 17.0045U.

Annex:



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[IECEX CML 14.0029X Iss. 8 Certificate Annex.pdf](#)

Annexe to: IECEx CML 14.0029X Issue 8
 Applicant: BARTEC GmbH
 Apparatus: 07-351*-***** ComEx Control and Indicating Stations



Description

The ComEx are either single, double or triple control and/or indicating display stations.

The three standard thermoplastic enclosures, single (07-3511-* and 07-3514-*), double (07-3512-* and 07-3515-*) and triple (07-3513-* and 07-3516-*) can be combined with various separately certified actuators, switch modules and luminous modules.

The control and display stations may be optionally provided with cable glands and blanking elements, as well as an earthing plate.

Ratings:

Increased safety and Dust types			
Type	07-3511-	07-3512-	07-3513-
Rated insulation voltage	690 V	690 V	690 V
Rated voltage, Max.	400 V	400 V	400 V
Rated current, Max.	Note: Allowable maximum voltages, currents and ambient may be higher or lower dependant on enclosure size and components fitted, see instructions for specific details		
At Ta 40°C	16 A	16 A	Up to 20 A
At Ta 60°C	11 A	11 A	Up to 14 A

Intrinsic safety types			
Type	07-3514-	07-3515-	07-3516-
Ui	30 V	30 V	30 V
Ii	150 mA	150 mA	150 mA
Pi	1 W	1 W	1 W
The Ci and Li values are negligible and therefore stated as zero			

Unit 1, 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





Series model type reference:

07	-	3	5	1	*	-	*	*	*	*	*	*	*	*	*	*	*
A	-	B	C	D	E	-	F	G	H	I	J	K	L	M	N	O	P

Type reference Prefix	Code for	Variation Prefix	Description
A	Basic designation	07	Common code number
B, C	Product sector	35	Code combination "e"
D	Enclosure material	1	Plastic material
E	Enclosure size	1	88 mm
		2	130 mm
		3	176 mm
		4	88 mm – Ex i
		5	130 mm – Ex i
		6	176 mm – Ex i
F	Cable gland, top of enclosure (Side B)	0	Without
		1	One, M20, plastic
		2	One, M25, plastic
		3	Two, M20, plastic
		4	One, M20, plastic one, M20, blanking element
		5	One, M20, metal
		6	One, M25, metal
		7	Two, M20, metal
		8	One, M20, metal one, M20, blanking element
		9	Special: 1 x ≤ M32 or 2 x ≤ M20 and 1 x ≤ M16 or 2 x ≤ M25 or 3 x ≤ M16
G	Cable gland, bottom of enclosure (Side A)	0	Without
		1	One, M20, plastic
		2	One, M25, plastic
		3	Two, M20, plastic
		4	One, M20, plastic one, M20, blanking element
		5	One, M20, metal
		6	One, M25, metal
		7	Two, M20, metal
		8	One, M20, metal one, M20, blanking element
		9	Special: 1 x ≤ M32 or 2 x ≤ M20 and 1 x ≤ M16 or 2 x ≤ M25 or 3 x ≤ M16
H - P	Applications	Variants with separately certified operators and modules	
	H - J	For use with all enclosure type/sizes	

Type reference Prefix	Code for	Variation Prefix	Description
	K - M	For use with: 07-3512, 07-3513, 07-3515 and 07-3516 type/sizes only	
	N - P	For use with: 07-3513 and 07-3516 type/sizes only	
H, I K, L N, O	Operators	00	Without operator
		B1	Blanking plug (05-0003-0019/****)
		D*	Potentiometer (05-0003-0076/****)
		E*	Lock types (05-0003-0077/**** to 05-0003-0080/****)
		H*	Position Selector Types (05-0003-0020/**** to 05-0003-0021/****)
		K*	Lock type (05-0003-0012/****)
		L*	Lamp module types (05-0003-0013/**** to 05-0003-0017/****)
		N*	Emergency button type (05-0003-0008/****)
		P*	Push button types (05-0003-0007/****, 05-0003-0018/****, 05-0003-0075/**** and 05-0003-0082/****)
		S*	Position Selector types (05-0003-0009/****, 05-0003-0011/****, 05-0003-0071/**** and 05-0003-0073/****)
		T*	Laminated Push Button types (05-0003-0065/**** to 05-0003-0069/****)
J, M, P	Modules	1	Switchmodule 2 NC
		2	Switchmodule 2 NO
		4	Switchmodule 1 NC / 1NO or Control switching unit 1 kΩ (dependant on operator type)
		5	Control switching unit 2,2 kΩ
		6	Control switching unit 4.7 kΩ or Terminal block
		7	Control switching unit 10 kΩ
		R	Lampmodule red
		G	Lampmodule green
Y	Lampmodule yellow		
W	Lampmodule white		
B	Lampmodule blue or Illuminated push button module 1 NO (depends on operator type)		
A	Illuminated push button module 1 NC		
Or K - M N - P	Measuring Devices	MM*	Measuring device separately certified with different max. current
Or H - J	Operator (Control Switch)	G**	Position Selector type (05-0003-0062/****)
+ K - M	Control switch module	A** B**	Control switch module

Type reference Prefix	Code for	Variation Prefix	Description
		C** etc	
Or H, I (K, L)	Operators	See above	
+ K – M (N - P)	Switch module, 4-pole	PV**	Switch Module, 4-pole
* Counting number without influence on the model reference code			

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. A copy of the certification for the components fitted shall be provided to the end user.
- ii. When limited components are provided for applications other than the Ex db eb ia IIC T6 Gb versions, the user shall be provided with the appropriate limitation information for these components.

Specific Conditions of Use (Special Conditions)

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

- i. When equipment is marked 'Ex db eb ia' the circuits are separate intrinsically safe circuits and shall be used with appropriate barriers certified for 'Ex ia IIC' outputs.