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: 7

Status: **Current**

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Date of Issue: **2018-03-13**

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

Equipment: **ComEx Control and Indicating Devices**
Optional accessory:

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

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

Certificate history:
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)

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

Position: Certification Officer

Signature:
(for printed version)

Date: March 13, 2018

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-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

Quality Assessment Report:

DE/TUN/QAR06.0017/09

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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.

See Annex for full description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex for Specific Conditions of Use/Special Conditions for Safe Use.

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

Issue 1

This Issue introduced the following changes:

i. To allow an alternative sealing material to be used

Issue 2

This Issue introduced the following changes:

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 changes:

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.

Annex:

Certificate Annex IECEx CML 14.0029X Iss 7.pdf

Annexe to: IECEx CML 14.0029X Issue 7

Applicant: Bartec GmbH

Apparatus: 07-351*-********** Control and Indicating Devices

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 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 40ºC	16 A	16 A	Up to 20 A
At Ta 60ºC	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

Series type reference:

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

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Type reference Prefix	Code for	Variation Prefix	Description
A	**Basic designation**	**07**	Common code number
B,C	**Product sector**	**35**	Code combination “e”

Type reference Prefix	Code for	Variation Prefix	Description
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

cont.	***cont.***	**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

Type reference Prefix	**Code for**	**Variation Prefix**	**Description**
		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 – P Cont..	**H - J**	For use with all enclosure type/sizes	
	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/****)
Type reference Prefix	**Code for**	**Variation Prefix**	**Description**
		T*	Laminated Push Button types (05-0003-0065/**** to 05-0003-0069/****)
J, M, P	**Modules**	**1** **2** **4**	Switchmodule 2 NC Switchmodule 2 NO Switchmodule 1 NC / 1NO or Control switching unit 1 kΩ (dependant on operator type)
		5 **6** **7**	Control switching unit 2,2 kΩ Control switching unit 4.7 kΩ or Terminal block Control switching unit 10 kΩ

cont.	***cont.***	**R** **G** **Y** **W** **B** **A**	Lampmodule red Lampmodule green Lampmodule yellow Lampmodule white Lampmodule blue or Illuminated push button module 1 NO (depends on operator type) Illuminated push button module 1 NC
H – J **+** **K - M**	**Operator (Control Switch)**	**G****	Position Selector type (05-0003-0062/****)
	Control switch module	**A**** **B**** **C**** **etc**	Control switch module
* Counting number without influence to the model reference code			

Conditions of Manufacture

a. 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.

b. 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.

Conditions of Certification (Specific Conditions of Use)

a. 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.