



# 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](http://www.iecex.com)

Certificate No.:	IECEX CML 14.0029X	Issue No: 4	<u>Certificate history:</u> 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:	<b>Current</b>	Page 1 of 4	
Date of Issue:	<b>2017-03-09</b>		
Applicant:	<b>BARTEC GmbH</b> Max-Eyth-Staße 16 97980 Bad Mergentheim <b>Germany</b>		
Equipment:	<b>ComEx Control and Indicating Devices</b>		
<i>Optional accessory:</i>			
Type of Protection:	<b>Increased safety and Dust</b>		
Marking:	Ex db eb IIC T6 Gb or Ex db eb ia IIC T6 Gb Ex tb III C T80°C Db Up to -55°C ≤Ta ≤ +60°C		

Approved for issue on behalf of the IECEx  
Certification Body:

A Snowden

Position:

Certification Officer

Signature:  
(for printed version)

Date:

March 9, 2017

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:

**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 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2015</b> 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](#)

### Quality Assessment Report:

[DE/TUN/QAR06.0017/08](#)



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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 Conditions of Certification**



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

### **Issue 1** This Issue introduced the following changes:

1 To allow an alternative sealing material to be used

### **Issue 2** This Issue introduced the following changes:

1 To correct a typographic error and clarify the approval standards

### **Issue 3** This Issue introduced the following changes:

1 To update certification drawings to reflect changes in enclosure manufacturing.

2 To update certificate to the latest standard editions.

### **Issue 4** This issue introduced the following changes:

1 To update drawings and manufacturing details for the locking device.

## **Annex:**

[Certificate Annex IECEx CML 14.0029X Iss 4.pdf](#)

**Annexe to:** IECEx CML 14.0029X Issue 4  
**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 40°C	16 A	16 A	Up to 20A
At Ta 60°C	11A	11A	Up to 14A
Intrinsic safety types			
Type	07-3514-	07-3515-	07-3516-
Ui	30V	30V	30V
Ii	150mA	150mA	150mA
Pi	1W	1W	1W

## Series type reference:

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

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

Unit 1, Newport Business Park  
 New Port Road  
 Ellesmere Port  
 CH65 4LZ

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

[www.cmlex.com](http://www.cmlex.com)

Company Reg No. 8554022 VAT No. GB163023642



Type reference Prefix	Code for	Variation Prefix	Description
<b>D</b>	<b>Enclosure material</b>	<b>1</b>	Plastic material
<b>E</b>	<b>Enclosure size</b>	<b>1</b>	88mm
		<b>2</b>	130mm
		<b>3</b>	176mm
		<b>4</b>	88mm – Ex i
		<b>5</b>	130mm – Ex i
		<b>6</b>	176mm – Ex i
<b>F</b>	<b>Cable gland, top of enclosure (Side B)</b>	<b>0</b>	Without
		<b>1</b>	One, M20, plastic
		<b>2</b>	One, M25, plastic
		<b>3</b>	Two, M20, plastic
		<b>4</b>	One, M20, plastic one, M20, blanking element
		<b>5</b>	One, M20, metal
		<b>6</b>	One, M25, metal
		<b>7</b>	Two, M20, metal
		<b>8</b>	One, M20, metal one, M20, blanking element
		<b>9</b>	Special: 1 x $\leq$ M32 or
<b>G</b>	<b>Cable gland, bottom of enclosure (Side A)</b>	<b>0</b>	Without
		<b>1</b>	One, M20, plastic
		<b>2</b>	One, M25, plastic
		<b>3</b>	Two, M20, plastic
		<b>4</b>	One, M20, plastic one, M20, blanking element
		<b>5</b>	One, M20, metal
		<b>6</b>	One, M25, metal

Type reference Prefix	Code for	Variation Prefix	Description		
		<b>7</b>	Two, M20, metal		
		<b>8</b>	One, M20, metal one, M20, blanking element		
		<b>9</b>	Special: 1 x $\leq$ M32 or	2 x $\leq$ and 1 x $\leq$ M16 or	2 x <M20 or 3 x $\leq$ M16
<b>H – P</b>	<b>Applications</b>	Variants with separately certified operators and modules			
	<b>H - J</b>	For use with all enclosure type/sizes			
<b>H – P Cont..</b>	<b>K - M</b>	For use with 07-3512, 07-3513, 07-3515 and 07-3516 type/sizes only			
	<b>N - P</b>	For use with 07-3513 and 07-3516 type/sizes only			
<b>H, I K, L N, O</b>	<b>Operators</b>	<b>00</b>	Without operator		
		<b>B1</b>	Blanking plug (05-0003-0019/****)		
		<b>D*</b>	Potentiometer (05-0003-0076/****)		
		<b>E*</b>	Lock types (05-0003-0077/**** to 05-0003-0080/****)		
		<b>H*</b>	Position Selector Types (05-0003-0020/**** to 05-0003-0021/****)		
		<b>K*</b>	Lock type (05-0003-0012/****)		
		<b>L*</b>	Lamp module types (05-0003-0013/**** to 05-0003-0017/****)		
		<b>N*</b>	Emergency button type (05-0003-0008/****)		
		<b>P*</b>	Push button types (05-0003-0007/****, 05-0003-0018/****, 05-0003-0075/**** and 05-0003-0082/****)		
		<b>S*</b>	Position Selector types (05-0003-0009/****, 05-0003-0011/****, 05-0003-0071/**** and 05-0003-0073/****)		
		<b>T*</b>	Laminated Push Button types (05-0003-0065/**** to 05-0003-0069/****)		

Type reference Prefix	Code for	Variation Prefix	Description
J, M, P	Modules	1	Switchmodule 2 NC
		2	Switchmodule 2 NO
		4	Switchmodule 1 NC / 1NO or Control switching unit 1 k $\Omega$ (dependant on operator type)
		5	Control switching unit 2,2 k $\Omega$
		6	Control switching unit 4.7 k $\Omega$ or Terminal block
		7	Control switching unit 10 k $\Omega$
		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
H – J	Operator (Control Switch)	G**	Position Selector type (05-0003-0062/****)
+ K - M	Control switch module	A** B** C** etc	Control switch module

\* Counting number without influence to the model reference code

### Conditions of Manufacture

- 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.
- When limited components are provided for applications other than the Ex d e ia IIC T6 Gb versions, the user shall be provided with the appropriate limitation information for these components

### Conditions of Certification

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