



# 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 17.0057U

Issue No: 0

Certificate history:

Issue No. 0 (2017-10-24)

Status: **Current**

Page 1 of 3

Date of Issue: **2017-10-24**

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

Equipment: **Control and Switching Unit, Type 07-337\*-\*\*\*\*/\*\*\*\***

*Optional accessory:*

Type of Protection: **Flameproof "db", Increased safety "eb"**

Marking:

Ex db eb IIC Gb

Ex db eb I Mb

Ta = -55°C to +40°C/+50°C/+60°C

*Approved for issue on behalf of the IECEx  
Certification Body:*

R C Marshall

*Position:*

Certification Officer

*Signature:  
(for printed version)*

*Date:*

2017-10-24

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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Date of Issue: **2017-10-24** Page 2 of 3

Manufacturer: **BARTEC GmbH**  
Max-Eyth-Straße 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** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-1 : 2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-7 : 2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

*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/ExTR17.0168/00](#)

Quality Assessment Report:

[DE/TUN/QAR06.0017/09](#)



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Certificate No: IECEX CML 17.0057U

Issue No: 0

Date of Issue: 2017-10-24

Page 3 of 3

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The control and switching unit is used for the purpose of switching and control (open and closed loops). It is equipped with electronic and/or electromechanical components and may fitted with an actuator shaft and various covers. Connection is by means of the integrated supply terminals.

See Annex for full description and Schedule of Limitations.

**SPECIFIC CONDITIONS OF USE: NO**

### Annex:

[IECEX CML 17.0057U Iss 0 Annex.pdf](#)

**Annexe to:** IECEx CML 17.0057U Issue 0  
**Applicant:** BARTEC GmbH  
**Apparatus:** Control and Switching Unit, Type 07-337\*-\*\*\*



**Product Description**

The control and switching unit type 07-337\*-\*\*\*\*/\*\*\*\* is used for the purpose of switching and control (open and closed loops). It is equipped with electronic and/or electromechanical components and may fitted with an actuator shaft and various covers. Connection is by means of the integrated supply terminals. The following models are covered by this certificate,

<b>Type code</b>	07	-	3	3	7	*	-	*	*	*	*	/	*	*	*	*
<b>Code number</b>	A		B	C	D	E		F	G	H	I		J	K	L	M

Code	Number for:	Variation:	Description
A	Basic range	07	ExCo
B,C	Product	33	Control and indicator module
D	Module	7	Control and switching
E	Device type	1	Rail-mounted installation
		3	Front panel installation
F	Connection	1	Terminals
		4	Terminals 15°
G,H	Code for installed device	D1	Potentiometer 100 Ω
		D2	Potentiometer 220 Ω
		D3	Potentiometer 470 Ω
		D4	Potentiometer 1 kΩ
		D5	Potentiometer 2,2 kΩ
		D6	Potentiometer 4,7 kΩ
		D7	Potentiometer 10 kΩ
		D8	Potentiometer 22 kΩ
		E1	Enclosure with fixtures
		L1	Illuminating stick with fixtures
		L2	Illuminating push button with fixtures
		W1	Resistance 1 kΩ / 10 kΩ, 1 Normally Open
		W2	Resistance 1 kΩ / 10 kΩ, 1 Normally Closed
I - M	Digits not affecting explosion protection		

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The control and switching units have the following ratings,

Cross section: max 2.5 mm<sup>2</sup>

Rated isolation voltage up to: 500 V

Control and switching potentiometer (D1 to D8):

Rated voltage:  $U_B = 320V$

Ambient temperature:  $-55^{\circ}C \leq T_a \leq +60^{\circ}C$  (0,5 W maximum)  
 $-55^{\circ}C \leq T_a \leq +40^{\circ}C$  (1.0 W maximum)

Control and switching enclosure with fixtures (E1, L1):

Ambient temperature:  $-55^{\circ}C \leq T_a \leq +60^{\circ}C$  (0,5 W maximum)  
 $-55^{\circ}C \leq T_a \leq +50^{\circ}C$  (0.75 W maximum)  
 $-55^{\circ}C \leq T_a \leq +40^{\circ}C$  (1.0 W maximum)

Control and switching integrated pushbutton contact (L2):

Rated operating voltage	24 V	230 V
Application category	DC-13	AC-15
Rated operating current	0.25 A	1 A

Ambient temperature:  $-55^{\circ}C \leq T_a \leq +60^{\circ}C$  (11 A maximum conventional thermal current)  
 $-55^{\circ}C \leq T_a \leq +40^{\circ}C$  (16 A maximum conventional thermal current)

Control and switching integrated switching contact (W1, W2):

Rated operating voltage	24 V	110 V	400 V	400 V
Application category	DC-13	DC-13	AC-15	AC-12
Rated operating current	1 A	0.5 A	10 A	16 A

Ambient temperature:  $-55^{\circ}C \leq T_a \leq +60^{\circ}C$  (11 A maximum conventional thermal current)  
 $-55^{\circ}C \leq T_a \leq +40^{\circ}C$  (16 A maximum conventional thermal current)

The switch module can be used in temperature class T6 areas and it has been designed for a temperature range between  $-55^{\circ}C$  and  $+85^{\circ}C$ .



### **Conditions of Manufacture**

None

### **Schedule of Limitations**

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

- i. The control and switching unit shall be installed in an enclosure which meets the requirements of a recognized type of protection as specified in EN 60079-0.
- ii. When the switch module and the control switch are installed in an enclosure of the type of protection increased safety "e" in compliance with IEC 60079-7, the clearance and creepage distances according to Clause 4.3, Clause 4.4 and Table 2 shall be complied with.