



EU Type Examination Certificate CML 17ATEX1119U Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Component **Control and Switching Unit, Type 07-337*_*_*_*_*/*_*_*_*_***
- 3 Manufacturer **BARTEC GmbH**
- 4 Address **Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany**
- 5 The component is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V. , Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

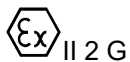
- 7 The 'U' suffix after the certificate number indicates that the component is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN 60079-0:2012+A11:2013

EN 60079-1:2014

EN 60079-7:2015

- 10 The component shall be marked with the following:



Ex db eb IIC Gb

Ta= -55°C to 40/50/60°C



Ex db eb I Mb

Ta= -55°C to 40/50/60°C



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11 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,

Type code	07	-	3	3	7	*	-	*	*	*	*	/	*	*	*	*
Code number	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 (NO) W2 Resistance 1 kΩ / 10 kΩ, 1 Normally Closed (NC)
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 mm²

Rated isolation voltage up to: 500 V

The control and switching unit can be used in temperature class T6 areas and it has been designed for a temperature range between -55°C and +85°C (Service Temperature).

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)



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12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	24 Oct 2017	R11272A/00	Issue of prime certificate
1	12 Dec 2018	R12059A/00	Transfer from CML UK to CML BV Certificate

Note: Drawings that describe the equipment or component are listed in the Annex.

13 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.

14 Schedule of Limitations

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

- i. The control and switching unit is to 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 EN 60079-7, the clearance and creepage distances according to clause 4.3, clause 4.4 and table 1 must be complied with.



Certificate Annex

Certificate Number CML 17ATEX1119U
Equipment Control and Switching Unit, Type 07-337*-****/****
Manufacturer BARTEC GmbH

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
01-3371-6501	1 of 1	A	24 Oct 2017	Approval drawing, Control and switching Module, Typ 07-3371-1**0/****
01-3371-6501 GAP	1 of 1	V2	24 Oct 2017	Table of (cylindrical) flamepath gaps, Control and switching unit, Type-no: 07-3371-1***/****
01-3371-6501 St	1 to 3	B	24 Oct 2017	Approval bill of material (BOM), Control and switching unit, Typ 07-337*-****/****
01-3371-6501 HLP	1 to 2	18.05.2015	24 Oct 2017	Material Overview, Control and switching Module, Typ 07-337*-****/****
01-3373-6501	1 of 1	A	24 Oct 2017	Approval drawing, Control and switching Module, Typ 07-3373-1**0/****
01-3373-6501 GAP	1 of 1	V2	24 Oct 2017	Table of (cylindrical) flamepath gaps, Control and switching unit, Type-no: 07-3373-1***/****
01-3373-650001	1 of 1	A	24 Oct 2017	Control and switching Module, Typ 07-3373-4***/****
01-3373-650001 St	1 to 3	A	24 Oct 2017	Approval bill of material (BOM), Control and switching unit, Typ 07-3373-4**0/****
01-3373-650001 GAP	1 of 1	V2	24 Oct 2017	Table of (cylindrical) flamepath gaps, Control and switching unit, Type-no: 07-3373-4***/****
01-3373-650002	1 of 1	31.08.2017	24 Oct 2017	Switch and control module Typ/type 07-337*-****/****

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No drawings issued.