



EU Type Examination Certificate CML 17ATEX1105U Issue 3

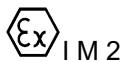
- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Component **Switch Module Type 07-332*_*_*_*_*/*_*_*_*_***
Control Switch Type 07-333*_*_*_*_*/*_*_*_*_*
Switch Module, 4-pole Type 07-3381-_*_*_*_*/*_*_*_*_*
- 3 Manufacturer **Bartec GmbH**
- 4 Address **Max-Eyth-Straße 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:



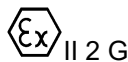
I M 2

Ex db eb I Mb

Ta = -55°C ≤ Ta ≤ +40°C (16 A)

Ta = -55°C ≤ Ta ≤ +60°C (11 A)

Ts = -55°C ≤ Ts ≤ +85°C



II 2 G

Ex db eb IIC Gb

Ta = -55°C ≤ Ta ≤ +40°C (16 A)

Ta = -55°C ≤ Ta ≤ +60°C (11 A)

Ts = -55°C ≤ Ts ≤ +85°C



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11 Description

Switch Module

The Switch Module Type 07-332*-* ***/** is a built-in switch with two switching elements which can be separately operated. It is suitable for bottom or front mounting and serves as a control switch.

Electrical Data														
Rated Insulation Voltage U_i		690 V												
Rated Operating Voltage U_e		400 V	400 V	250 V	110 V	24 V								
Rated Operating Current I_e		16 A	10 A	10 A	0.5 A	1 A								
Related to Utilization Category		AC-12	AC-15	AC-15	DC-13	DC-13								
Rated values differing from those stated above are permissible provided that the making and breaking capacities comply with the relevant regulations and such values have been specified by the manufacturer dependent on operating mode, utilization category, etc.														
Maximum Cross Section		2.5 mm ²												
Service Temperature T_s *		-55°C ≤ T_s ≤ +85°C												
* Including self-heating rate, maximum ambient temperature and, if applicable, external heat.														
Conventional Thermal Current I_{the}														
For an ambient temperature up to 40 °C		16 A (-55°C ≤ T_a ≤ +40°C)												
For an ambient temperature up to 60 °C		11 A (-55°C ≤ T_a ≤ +60°C)												
Model Number														
Code Number	Type	07	-	3	3	2	*	-	*	*	0	*	/	****
		1	-	2	3	4	5	-	6	7	8	9	/	10
1	Program	07 = Common code number												
2, 3	Product Sector	33 = Code for control and indicator module												
4	Function	2 = Switch module												
5	Fixture	1 = Bottom 3 = Front												
6	Connection	1 = Screw terminals 4 = Screw terminals 15°												
7	Switch	1 = 2 NC 2 = 2 NO 4 = 1 NC and 1 NO												
8	No. of conductors	0 with clamps												
9, 10	Applications	Variants without influence of explosion protection												



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Control Switch

The Control Switch Type 07-3331-1***/**** for bottom mounting is used as a main switch, as a control switch suitable for isolation, and as a motor switch. It is composed of two switch modules with a single operating unit.

Electrical Ratings and Technical Data														
Rated Insulation Voltage U_i	690 V													
Rated Operating Voltage U_e	400 V	400 V	110 V	24 V										
Rated Operating Current I_e	16 A	10 A	0.5 A	1 A										
Related to Utilization Category	AC-12	AC-15	DC-13	DC-13										
Rated values differing from those stated above are permissible provided that the making and breaking capacities comply with the relevant regulations and such values have been specified by the manufacturer dependent on operating mode, utilization category, etc														
Maximum Cross Section	2.5 mm ²													
Service Temperature T_s^*	-55°C ≤ T_s ≤ +85°C													
* Including self-heating rate, maximum ambient temperature and, if applicable, external heat.														
Conventional Thermal Current I_{the}														
For an ambient temperature up to 40°C	16 A (-55 °C ≤ T_a ≤ +40 °C)													
For an ambient temperature up to 60°C	11 A (-55 °C ≤ T_a ≤ +60 °C)													
Model Number														
Code Number	Type	07	-	3	3	3	1	-	1	*	*	*	/	****
		1	-	2	3	4	5	-	6	7	8	9	/	10
1	Program	07 = Common code number												
2, 3	Product Sector	33 = Code for control and indicator module												
4	Function	3 = Control switch												
5	Fixture	1 = Bottom												
6	Connection	1 = Terminals												
7	Switch	A ... Z; A = 2 positions maintained												
8, 9	Switching combinations	01 ... 99												
9, 10	Applications	Variants without influence of explosion protection												



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Switch Module, 4-pole

The Switch Module, 4-pole, Type 07-3381-****/**** is an Ex-component and consists of two flameproof enclosures "Ex d", connecting contacts and a plastic cover, integrating the design into a single unit. Each flameproof enclosure "Ex d" is formed by a plastic case filled with sealing compound insulating the switching elements, forming the explosion proof enclosure. This switching module is used to switch external electrical circuits.

Electrical Ratings and Technical Data																	
Rated Insulation Voltage U_i	690 V																
Rated Operating Voltage U_e	400 V	400 V	110 V	24 V	230V	220V											
Rated Operating Current I_e	16 A	10 A	0.5 A	1 A	10A	0.1A											
Related to Utilization Category	AC-12	AC-15	DC-13	DC-13	AC-15	DC-13											
Rated values differing from those stated above are permissible provided that the making and breaking capacities comply with the relevant regulations and such values have been specified by the manufacturer dependent on operating mode, utilization category, etc																	
Maximum Cross Section	2.5 mm ²																
Service Temperature T_s^*	-55°C ≤ T_s ≤ +85°C																
* Including self-heating rate, maximum ambient temperature and, if applicable, external heat.																	
Conventional Thermal Current I_{the}																	
For an ambient temperature up to 40°C	16 A (-55 °C ≤ T_a ≤ +40 °C)																
For an ambient temperature up to 60°C	11 A (-55 °C ≤ T_a ≤ +60 °C)																
Model Number																	
Code Number	Type	07	-	3	3	8	1	-	*	*	*	*	/	*	*	*	*
		A	-	B	C	D	E	-	F	G	H	I	/	J	K	L	M
A	Program	07 = Common code number															
B, C	Product Sector	33 = Code for control and indicator module															
D	Function	8 = Switch module, 4-pole															
E	Fixture	1 = Bottom mounting – DIN rail															
F	Switch	1:	4 N/C*			*N/C – Normally closed											
		2:	3 N/C – 1 N/O*			*N/O – Normally opened											
		3:	2 N/C – 2 N/O														
		4:	4 N/O														
		5:	1 N/C – 3 N/O														
G - M	Variants with influence of explosion protection.																



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Variation 1

This variation introduces the following modification:

- i. To expand the tables in the product description

Variation 2

This variation introduces the following modification:

- i. Addition of the Switch Module, 4-pole, Type 07-3381-****/**** and expansion of the product description.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	09 Aug 2017	R2271A/00	Issue of prime certificate
1	03 Aug 2018	R11858A/00	Introduction of Variation 1
2	12 Dec 2018	R12059A/00	Transfer from CML UK to CML BV Certificate
3	01 Feb 2019	R12228A/00	Introduction of Variation 2

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

13 Conditions of Manufacture

There are no conditions of Manufacture.

14 Schedule of Limitations

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

- i. The components are to be installed in an enclosure which meets the requirements of a recognised type of protection as specified in Section 1 of EN 60079-0.
- ii. When the components are installed in an increased safety enclosure that complies with EN 60079-7, the creepage and clearance distances must comply with the requirements of Table 1.

Certificate Annex



Certificate Number CML 17ATEX1105U
Equipment Switch Module Type 07-332*-****/****
Control Switch Type 07-333*-****/****
Switch Module, 4-pole, Type 07-3381-****/****
Manufacturer Bartec GmbH

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

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
01-3321-650001	1 of 1	A	09 Aug 2017	Schaltmodul / Switch Module
01-3331-6501 St	1 to 2	B	09 Aug 2017	Steuerschalter / Control Switch
01-3331-6501	1 of 1	A	09 Aug 2017	Steuerschalter / Control Switch
01-3323-650001 St	1 to 2	A	09 Aug 2017	Schaltmodul / Switch Module
01-3323-4B0015	1 of 1	A	09 Aug 2017	Schaltmodul / Switch Modul
01-3321-6502	1 to 2	A	09 Aug 2017	Schaltmodul / Switch Module

Issue 1

No drawings issued.

Issue 2

No drawings issued.

Issue 3

Drawing No	Sheets	Rev	Approved date	Title
01-3381-650005	1 of 1	-	01 Feb 2019	Steuerschalter 4-polig
01-3381-650002	1 of 1	-	01 Feb 2019	Schaltmodul 4-polig
01-3381-650001	1 of 1	-	01 Feb 2019	Schaltmodul 4-polig