

EU Type Examination Certificate CML 22ATEX1137X Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Panelmounted module with junction box type 07-33*4-5**0/******
- 3 Manufacturer **Bartec GmbH**
- 4 Address **Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Eurofins CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, 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 equipment 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 If an 'X' suffix appears after the certificate number, it indicates that the equipment 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 IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018 (*)
EN 60079-11:2012 (**)	EN IEC 60079-31:2024***	

*** Although this standard does not appear on the harmonised list, the content has been reviewed, and as it is the latest technical knowledge and addresses all the same requirements as the previous edition, it is accepted as meeting the same EHSRs of the Directive as the previous, harmonised edition. The assessment is included in the flexible scope assessment document.

- 10 The equipment shall be marked with the following:

(*)

07-3324-5**0/****; 07-3354-51*0/****;
07-3364-51*0/****; 07-3364-52*0/****;
07-3364-57*0/****; 07-3364-58*0/****;
07-3374-5D*0/****



II 2 G D

Ex db eb IIC T6 Gb

Ex tb IIIC T80°C Db

(**)

07-3354-54*0/****; 07-3364-55*0/****;
07-3364-56*0/****



II 2 G D

Ex db ia IIC T6 Gb

Ex ia tb IIIC T80°C Db

11 Description

The panelmounted module with junction box type 07-33*4-5**0/**** is intended for use in hazardous area Zone 1 and 21 as fixed equipment mounted by means of an actuator on a wall of an enclosure or a panel to indicate and switch non-intrinsically safe or intrinsically safe electrical circuits.

The panelmounted module with junction box may optionally be provided with a connection cable as well as one of the corresponding accessories: protective collar, locking device, shield holder and marking clip.

Type no.	0	7	-	3	3	*	4	-	5	*	*	0	/	*	*	*	*
Code no.	A	B		C	D	E	F		G	H	I	J		K	L	M	N

<u>Code</u>	<u>Code for</u>	<u>Variations</u>	<u>Description</u>
A, B	Basic program	07	ExCo
C, D	Product sector	33	Control and indicator device
E	Device (function module)	2	Switch module type 07-3324-4**0/****
		5	Illuminated indicator module type 07-3354-4**0/****
		6	Illuminated push button module type 07-3364-4**0/****
		7	Potentiometer module type 07-3374-4D*0/****
F	Mounting	4	Panel
G	Connection	5	Junction box
H, I	Number or letter identical to the code variation of the corresponding function module type 07-33*4-4**0/****		
J-N	Number or letter for characteristics without influence on the explosion protection		

Ratings

General

Mechanical risk level (on the actuator side) high

Degree of protection IP64

at the following conditions:

- tightening torque of the junction box fastening screws 0.5 Nm
- tightening torques of the cable gland acc. to manufacturer specification
- diameter of the connection cable acc. to manufacturer specification

Rated connecting capacity of terminals 0.75 - 2.5 mm²

Rated torque for terminal screws 0.4 - 0.7 Nm

Ambient temperature range refer to Specific Conditions of Use

Further technical data can be found on documentation of the corresponding used separately certified cable gland.

Panelmounted module with junction box type 07-3324-50/******

The module can be used to switch non-intrinsically safe electrical circuits:

Rated voltage 400/690 V

Rated insulation voltage 400/690 V

Rated current at the connection cable & maximum ambient temperature:

Ambient temperature	Number of wires [pcs.]	Maximum rated current [A] per wire at wire cross-section [mm ²]			
		≥ 0.75	≥ 1	≥ 1.5	≥ 2.5
≤ 40 °C	2	14	16	20	25
	4	8	10	13	19
≤ 60 °C	2	8	9	12	16
	4	4	6	8	11

Ex-Marking: II 2 GD Ex db eb IIC T6 Gb
Ex tb IIIC T80°C Db

Panelmounted module with junction box type 07-3354-51*0/**, 07-3364-57*0/****, 07-3364-58*0/******

The module can be used to indicate and switch non-intrinsically safe electrical circuits:

Rated voltage 230 V

Working voltage 250 V

Rated insulation voltage 300 V

Rated operating voltage, U_e (indicator) AC/DC 12 V to 230 V

Rated current 1 A

Ex-Marking: II 2GD Ex db eb IIC T6 Gb
Ex tb IIIC T80°C Db

Panelmounted module with junction box type 07-3354-54*0/**, 07-3364-55*0/****, 07-3364-56*0/******

The module can be used to indicate and switch circuits in type of protection Intrinsic Safety Ex ia IIC and IIIC:

Rated voltage 30 V

Rated insulation voltage 30 V

Rated operating voltage, U_e (indicator) DC 12 V to 30 V

Maximum values per circuit: U_i = 30 V

I_i = 150 mA

P_i = 1 W

C_i (indicator) = 37 nF

C_i (switch) – negligibly low

L_i – negligibly low

Ex-Marking: II 2GD Ex db ia IIC T6 Gb
Ex ia tb IIIC T80°C Db

The intrinsically safe circuits are galvanically isolated from each other in accordance with EN 60079-11.

Panelmounted module with junction box type 07-3364-51*0/**, 07-3364-52*0/******

The module can be used to indicate and switch a non-intrinsically safe electrical circuits:

Rated voltage	30 V
Rated insulation voltage	30 V
Rated operating voltage, U_e (indicator)	DC 12 V to 30 V
Rated current	0.25 A
Ex-Marking:	II 2GD Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db

Panelmounted module with junction box type 07-3374-5D*0/****

The module can be used to switch non-intrinsically safe electrical circuits:

Rated voltage	250 V
Rated insulation voltage	250 V
Rated power dissipation	1 W
Ex-Marking:	II 2GD Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db

Variation 1

This variation introduced the following modification:

- i. To evaluate the equipment for Ex tb applications.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 Sep 2024	R15142A/00	Issue of Prime Certification
1	17 Mar 2026	R19037A/00	Issue of variation 1

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 of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.
- ii. All safety critical Ex Components must be installed in accordance with their schedule of limitations.

14 Specific Conditions of Use (Special Conditions)

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

- i. The panelmounted module with junction box shall be installed in such a way that except for an actuator's functional surface and optionally accessory it is protected by an enclosure that complies at least with the requirements of EN IEC 60079-0 clause 26.4.2 and excludes the risk of mechanical damage as well as protected from exposure to UV light.
- ii. The minimum ambient temperature for the panelmounted module with junction box shall be above or equal to the minimum ambient temperature for the separately certified cable gland, but above or equal to -55 °C for hazardous gas areas and -40 °C for hazardous dust areas. The maximum ambient temperature shall be below or equal to +60 °C.
- iii. In hazardous gas areas, the panelmounted module with junction box containing the actuator type 07-3400-C***/*, 07-3400-F***/*, 07-3400-G***/* and/or provided with the protective collar, the locking device, the shield holder and not mounted on a conductive earthed surface shall be installed in such a way that actuator's functional surface and optionally accessory are against the electrostatic charging.
- iv. The values U_o , I_o , C_o and L_o of an approved Intrinsically Safe Apparatus connected to the panelmounted module with junction box must not exceed the permissible maximum values specified in EN 60079-11 and EN 60079-25, if applicable, for the zone(s) and group(s) of the corresponding hazardous areas of the location of the panelmounted module with junction box.
- v. The technical data of separately certified cable gland according to manufacturer specifications shall be observed.
- vi. Each terminal of the panelmounted module with junction box is limited to one conductor per clamping unit.
- vii. Suitable additional clamping of the connection cable shall be used to ensure that pulling is not transmitted to the cable gland.
- viii. In hazardous dust areas, the panelmounted module with junction box shall be installed in such a way that the actuator's functional surfaces and optional accessories are protected against electrostatic charging.
- ix. The maximum available short circuit current of supplies connected to the panelmounted module with junction box shall not exceed 10 kA.
- x. If the panelmounted module with junction box does not contain a cable gland, the entry into the equipment with a maximum diameter of 16.5 mm shall be fitted with a suitably Ex certified Cable Gland in the types of protection "eb" and "tb" with a maximum service temperature above or equal to +70 °C, with a length of the threaded part up to 20 mm and, with an optional Special Condition of Use that tensile force shall be relieved from the connection cable.