



EU Type Examination Certificate CML 17ATEX1106U Issue 3

- 1 Components intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Component **Illuminated Indicator Module Type 07-335*-****/****, Type 07-3352-****/**** and Type 07-3354-****/****
Illuminated Push Button Module Type 07-336*-****/****, Type 07-3362-****/**** and Type 07-3364-****/******

- 3 Manufacturer **Bartec GmbH**
- 4 Address **Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany**

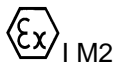
- 5 The component is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this 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:

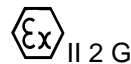
EN IEC 60079-0:2018 EN 60079-1:2014 EN IEC 60079-7:2015/A1:2018
EN 60079-11:2012

- 10 The equipment shall be marked with the following:



Ex db eb I Mb
Ex db ia I Mb
Ex db eb ia I Mb

-55°C ≤ Ta ≤ +50°C
-55°C ≤ Ta ≤ +60°C*
-55°C ≤ Ts ≤ +85°C



Ex db eb IIC Gb
Ex db ia IIC Gb
Ex db eb ia IIC Gb

-55°C ≤ Ta ≤ +50°C
-55°C ≤ Ta ≤ +60°C*
-55°C ≤ Ts ≤ +85°C

*Note: if rated operating voltage ≤ 26.4 V



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11 Description

Illuminated Indicator Module Type 07-3351-****/**** and Type 07-3353-****/****

The Illuminated Indicator Modules Type 07-3351-****/**** and Type 07-3353-****/****, are a built-in appliance and serve as a signal lamp. The luminescent element being available in a variety of signal colours.

Electrical Ratings & Technical Data	
Non-intrinsically safe (IS) versions	
Rated voltage	300 V
Rated operating voltage, U_e	AC 12 V - 250 V; DC 12 V - 60 V
Rated connecting capacity of terminals	0.75 mm ² - 2.5 mm ² /18 AWG - 12 AWG
Rated torque	0.4 Nm - 0.7 Nm
Service temperature range, T_s *	-55°C ≤ T_s ≤ +85°C
* Including self-heating rate, maximum ambient temperature and, if applicable, external heat	
Ambient temperature, T_a	-55 °C ≤ T_a ≤ +50 °C -55 °C ≤ T_a ≤ +60 °C, if U_e ≤ 26.4 V
Intrinsically safe (IS) versions	
Suitable type code	07-335*-*4**/****
Maximum operating values, per module	U_i = 30 V I_i = 150 mA P_i = 1 W C_i – Negligible L_i – Negligible
Rated connecting capacity of terminals	0.75 mm ² - 2.5 mm ² /18 AWG - 12 AWG
Rated torque	0.4 Nm - 0.7 Nm
Service temperature range, T_s *	-55°C ≤ T_s ≤ +85°C
* Including self-heating rate, maximum ambient temperature and, if applicable, external heat	
Ambient temperature, T_a	-55 °C ≤ T_a ≤ +60 °C

Model No.															
Type no.	0 7 - 3 3 5 * - * * * * / * * * *														
Code no.	A B C D E F G H I J K L M N														
Code	Code for	Variations	Description												
A, B	Program	07	ExCo												
C, D	Product Sector	33	Control and indicator device												
E	Device	5	Illuminated indicator module												
F	Mounting	1	Bottom												
		3	Front												
G	Connection	1	Screw terminals												
		4	Screw terminals 15°												
H	Design	1	AC 12 V - 250 V; DC 12 V - 60 V												
		4	AC/DC 12 V - 250 V												
I	Colour	1	Red												
		2	Green												
		3	Yellow												
		4	White												



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		5	Blue
J-N	Number or letter for characteristics without influence on the explosion protection		

Illuminated Indicator Module Type 07-3352-***0/**** and Type 07-3354-***0/****

The Illuminated Indicator Modules Type 07-3352-***0/**** and Type 07-3354-***0/****, are a built-in appliance and serve as a signal lamp. The luminescent element being available in a variety of signal colours.

Electrical Ratings & Technical Data	
Non-intrinsically safe (IS) versions	
Rated voltage, U	230 V
Rated operating voltage, U _e	AC/DC 12 V - 230 V
Rated connecting capacity of terminals	0.75 mm ² - 2.5 mm ² /18 AWG - 12 AWG
Rated torque	0.4 Nm - 0.7 Nm
Service temperature range, T _s	-55°C ≤ T _s ≤ +85°C
Intrinsically safe (IS) versions	
Rated voltage, U	30 V
Rated operating voltage, U _e	DC 12 V - 30 V
Rated connecting capacity of terminals	0.75 mm ² - 2.5 mm ² /18 AWG - 12 AWG
Rated torque	0.4 Nm - 0.7 Nm
Maximum values per circuit	U _i = 30 V I _i = 150 mA P _i = 1 W C _i = 37 nF L _i = Negligible
Service temperature range, T _s	-55°C ≤ T _s ≤ +85°C

Model No.			
Type no.		0	7 - 3 3 5 * - * * * 0 / * * * *
Code no.		A	B C D E F G H I J K L M N
Code	Code for	Variations	Description
2	Program	07	ExCo
C, D	Product Sector	33	Control and indicator device
E	Device	5	Illuminated indicator module
F	Mounting	2	Rail
		4	Panel
G	Connection	1	Terminals (only for type 07-3352-****/****)
		4	Terminals 15° (only for type 07-3354-****/****)
H	Design	1	Increased safety "e"
		4	Intrinsic safety "i"
I	Colour	1	Red
		2	Green
		3	Yellow
		4	White
		5	Blue
J	Cable length	0	N/A
K-N	Number or letter for characteristics without influence on the explosion protection		



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Illuminated Push Button Module Type 07-3361-****/**** and Type 07-3363-****/****

The Illuminated Push Button Modules Type 07-3361-****/**** and Type 07-3363-****/****, are illuminated indicators with the function of a control switch. Connection is made via the integrated terminals.

Electrical Ratings & Technical Data	
Non-intrinsically safe (IS) versions	
Rated voltage	300 V
Rated operating voltage, U_e	AC 12 V - 250 V; DC 12 V - 60 V
Rated insulation voltage, U_i (Contacts)	300 V
Utilization category (Contacts)	230 V 24 V 1 A 0.25 A AC-15 DC-13
Rated connecting capacity of terminals	0.75 mm ² - 2.5 mm ² /18 AWG - 12 AWG
Rated torque	0.4 Nm - 0.7 Nm
Service temperature range, T_s *	-55°C ≤ T_s ≤ +85°C
* Including self-heating rate, maximum ambient temperature and, if applicable, external heat	
Ambient temperature, T_a	-55 °C ≤ T_a ≤ +50 °C -55 °C ≤ T_a ≤ +60 °C, if U_e ≤ 26.4 V
Intrinsically safe (IS) versions	
Suitable type code	07-336*-*5**/**** 07-336*-*6**/****
Maximum operating values, per module	U_i = 30 V I_i = 150 mA P_i = 1 W C_i – Negligible L_i – Negligible
Rated connecting capacity of terminals	0.75 mm ² - 2.5 mm ² /18 AWG - 12 AWG
Rated torque	0.4 Nm - 0.7 Nm
Service temperature range, T_s *	-55°C ≤ T_s ≤ +85°C
* Including self-heating rate, maximum ambient temperature and, if applicable, external heat	
Ambient temperature, T_a	-55 °C ≤ T_a ≤ +60 °C



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Model No.			
Type no.		0	7 - 3 3 6 * - * * * * / * * * *
Code no.		A B	C D E F G H I J K L M N
Code	Code for	Variations	Description
A, B	Program	07	ExCo
C, D	Product Sector	33	Control and indicator device
E	Device	6	Illuminated push button module
F	Mounting	1	Bottom
		3	Front
G	Connection	1	Screw terminals
		4	Screw terminals 15°
H	Design	5	AC/DC 12 V - 250 V; 1 x NCC
		6	AC/DC 12 V - 250 V; 1 x NOC
		7	AC 12 V - 250 V; DC 12 V - 60 V; 1 x NCC
		8	AC 12 V - 250 V; DC 12 V - 60 V; 1 x NOC
I	Colour	1	Red
		2	Green
		3	Yellow
		4	White
		5	Blue
J-N	Number or letter for characteristics without influence on the explosion protection		

Illuminated Push Button Module Type 07-3362-*0/**** and Type 07-3364-***0/******

The Illuminated Push Button Modules Type 07-3362-***0/**** and Type 07-3364-***0/****, are an illuminated indicator with the function of a control switch. The connection is via the integrated terminals.

Electrical Ratings & Technical Data	
Non-intrinsically safe (IS) versions	
Rated voltage, U	230 V
Rated insulation voltage, U _i (switch)	300 V
Rated operating voltage, U _e (indicator)	AC/DC 12 V - 230 V
Rated current (switch)	up to 1 A
Rated connecting capacity of terminals	0.75 mm ² - 2.5 mm ² /18 AWG - 12 AWG
Rated torque	0.4 Nm - 0.7 Nm
Service temperature range, T _s	-55°C ≤ T _s ≤ +85°C
Non-intrinsically safe (IS) low voltage versions	
Rated voltage, U	30 V
Rated insulation voltage, U _i (switch)	30 V
Rated operating voltage, U _e (indicator)	DC 12 V - 30 V
Rated current (switch)	up to 0.25 A
Rated connecting capacity of terminals	0.75 mm ² - 2.5 mm ² /18 AWG - 12 AWG
Rated torque	0.4 Nm - 0.7 Nm
Service temperature range, T _s	-55°C ≤ T _s ≤ +85°C



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Intrinsically safe (IS) versions	
Rated voltage, U	30 V
Rated insulation voltage, U _i (switch)	30 V
Rated operating voltage, U _e (indicator)	DC 12 V - 30 V
Rated connecting capacity of terminals	0.75 mm ² - 2.5 mm ² /18 AWG - 12 AWG
Rated torque	0.4 Nm - 0.7 Nm
Maximum values per circuit	U _i = 30 V I _i = 150 mA P _i = 1 W C _i (indicator) = 37 nF C _i (switch) - Negligible L _i - Negligible
Service temperature range, T _s	-55°C ≤ T _s ≤ +85°C

Model No.												
Type no.	0 7 - 3 3 6 * - * * * 0 / * * * *											
Code no.	A B C D E F G H I J K L M N											
Code	Code for	Variations	Description									
2	Program	07	ExCo									
C, D	Product Sector	33	Control and indicator device									
E	Device	6	Illuminated push button module									
F	Mounting	2	Rail									
		4	Panel									
G	Connection	1	Terminals (only for type 07-3362-****/****)									
		4	Terminals 15° (only for type 07-3364-****/****)									
H	Design	1	Increased safety "e", 1 × NCC, low voltage									
		2	Increased safety "e", 1 × NOC, low voltage									
		5	Intrinsic safety "i", 1 × NCC									
		6	Intrinsic safety "i", 1 × NOC									
		7	Increased safety "e", 1 × NCC									
		8	Increased safety "e", 1 × NOC									
I	Colour	1	Red									
		2	Green									
		3	Yellow									
		4	White									
		5	Blue									
J	Cable length	0	N/A									
K-N	Number or letter for characteristics without influence on the explosion protection											

Variation 1

This variation introduces the following modification:

- i. To expand the tables in the product description.



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Variation 2

This variation introduces the following modifications:

- i. To update the certificate to the latest editions of EN/IEC 60079-0 and EN/IEC 60079-7.
- ii. Addition to the schedule of limitations.
- iii. Update of documentation.
- iv. Change of some electrical ratings and technical information.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	09 Aug 2017	R12271A/00	Issue of Prime Certificate
1	03 Aug 2018	R11858A/00	Issue of Variation 1
2	12 Dec 2018	R12059A/00	Transfer from CML UK to CML BV Certificate
3	21 Jun 2021	R13724A/00	Introduction of Variation 2

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 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 IEC 60079-0.
- ii. When the components are installed in an increased safety enclosure that complies with EN IEC 60079-7, the creepage and clearance distances must comply with the requirements of Table 1.
- iii. The components may be operated in an intrinsically safe or a non-intrinsically safe operation mode. The operation mode is specified in line with the specification of the product by the end user during installation. When the operation mode or the corresponding marking have been selected, these shall be permanent and shall not be changed during the entire life of the component.
- iv. The modules as Ex-Components were type tested according to EN 60079-1 "Equipment protection by flameproof enclosures – d" for an ambient temperature of up to +85°C. The actual maximum rated current of the modules must be determined in the type test of the electrical equipment concerned. The maximum service temperature of the modules must be considered.

Certificate Annex

Certificate Number CML 17ATEX1106U
Equipment Bartec GmbH
Manufacturer Illuminated Indicator Module Type 07-335*-****/****,
Type 07-3352-****/**** and Type 07-3354-****/****
Illuminated Push Button Module Type 07-336*-****/****,
Type 07-3362-****/**** and Type 07-3364-****/****



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

Issue 0

Drawing No.	Sheets	Rev.	Approved date	Title
01-3351-650004	1 of 1	C	09 Aug 2017	Leuchtmodul, Leuchttaster
01-3363-650001	1 of 1	A	09 Aug 2017	Leuchttaster / Illuminated Push Button
01-3361-6501	1 to 2	A	09 Aug 2017	Leuchttaster / Illuminated Push Button
01-3353-650001St	1 to 4	A	09 Aug 2017	Leuchtmodul und Leuchttaster
01-3353-650001	1 of 1	A	09 Aug 2017	Leuchtmodul / Illuminated Indicator Module
01-3351-6501St	1 to 4	D	09 Aug 2017	Leuchtmodul und Leuchttaster
01-3351-6501	1 to 2	B	09 Aug 2017	Leuchtmodul / Illuminated Indicator Module
01-3361-6501 GAP	1 of 1	5	09 Aug 2017	Table of (cylindrical) gaps of type 07-336*-1***/****
01-3363-650001 GAP	1 of 1	5	09 Aug 2017	Table of (cylindrical) gaps of type 07-3363-4***/****

Issue 1

No drawings issued.

Issue 2

No drawings issued.

Issue 3

Drawing No.	Sheets	Rev.	Approved date	Title
01-3322-650002	1 of 1	-	21 Jun 2021	Clamp, rail and contact Type 07-33**-*1***/****
01-3322-650002-BOM	1 of 1	-	21 Jun 2021	Clamp, rail and contact Type 07-33**-*1***/****
01-3351-6501 St	1 to 2	E	21 Jun 2021	Illuminated indicator and illuminated push-button Type 07-33**-*1***/****
01-3352-6A0003	1 of 1	-	21 Jun 2021	Minimum content of marking Illuminated indicator module Type 07-3335*-*1*0/****

Certificate Annex

Certificate Number CML 17ATEX1106U

Equipment Bartec GmbH

Manufacturer Illuminated Indicator Module Type 07-335*-****/****,
Type 07-3352-****/**** and Type 07-3354-****/****,
Illuminated Push Button Module Type 07-336*-****/****,
Type 07-3362-****/**** and Type 07-3364-****/****



Drawing No.	Sheets	Rev.	Approved date	Title
01-3352-6A0004	1 of 1	-	21 Jun 2021	Minimum content of marking Illuminated indicator module Type 07-335*-4*0/****
01-3352-650001	1 of 1	-	21 Jun 2021	Illuminated indicator module Type 07-3352-1**0/****
01-3352-650001-BOM	1 of 1	-	21 Jun 2021	Illuminated indicator module Type 07-3352-1**0/****
01-3352-650002-ASY	1 to 2	-	21 Jun 2021	Printed-board assembly Ex e Type 07-33**-****/****
01-3352-650002-BOM	1 of 1	-	21 Jun 2021	Printed-board assembly Ex e Type 07-33**-****/****
01-3352-650002-PCB	1 to 3	-	21 Jun 2021	Printed-board assembly Ex e Type 07-33**-****/****
01-3352-650002-SCH	1 of 1	-	21 Jun 2021	Printed-board assembly Ex e Type 07-33**-****/****
01-3352-650003-ASY	1 of 1	-	21 Jun 2021	Printed-board assembly Ex i Type 07-33**-****/****
01-3352-650003-BOM	1 of 1	-	21 Jun 2021	Printed-board assembly Ex i Type 07-33**-****/****
01-3352-650003-PCB	1 to 3	-	21 Jun 2021	Printed-board assembly Ex i Type 07-33**-****/****
01-3352-650003-SCH	1 of 1	-	21 Jun 2021	Printed-board assembly Ex i Type 07-33**-****/****
01-3352-650005	1 of 1	-	21 Jun 2021	Illuminated indicator module Type 07-335*-410/****
01-3353-650001 St	1 to 2	B	21 Jun 2021	Illuminated indicator and illuminated push-button Type 07-33**-4***/****
01-3354-650001	1 of 1	-	21 Jun 2021	Illuminated indicator module Type 07-3354-4**0/****
01-3354-650001-BOM	1 of 1	-	21 Jun 2021	Illuminated indicator module Type 07-3354-4**0/****
01-3362-650001	1 of 1	-	21 Jun 2021	Illuminated push button module Type 07-3362-1**0/****
01-3362-650001-BOM	1 of 1	-	21 Jun 2021	Illuminated push button module Type 07-3362-1**0/****
01-3362-6A0004	1 of 1	-	21 Jun 2021	Minimum content of marking Illuminated switch module Type 07-336*-7*0/****, 07-336*-8*0/****
01-3362-6A0005	1 of 1	-	21 Jun 2021	Minimum content of marking Illuminated push-button module Type 07-336*-5*0/****, 07-336*-6*0/****

Certificate Annex

Certificate Number CML 17ATEX1106U
Equipment Bartec GmbH
Manufacturer Illuminated Indicator Module Type 07-335*-****/****,
Type 07-3352-****/**** and Type 07-3354-****/****
Illuminated Push Button Module Type 07-336*-****/****,
Type 07-3362-****/**** and Type 07-3364-****/****



Drawing No.	Sheets	Rev.	Approved date	Title
01-3362-6A0006	1 of 1	-	21 Jun 2021	Minimum content of marking Illuminated push-button module Type 07-336*-*1*0/****, 07-336*-*2*0/****
01-3364-650001	1 of 1	-	21 Jun 2021	Illuminated push button module Type 07-3364-4**0/****
01-3364-650001- BOM	1 of 1	-	21 Jun 2021	Illuminated push button module Type 07-3364-4**0/****