#### **Operational Instruction** (Translation)

#### ComExflex Illuminated button Type 07-3363-47\*\*/\*\*\*\* and Type 07-3363-48\*\*/\*\*\*\*



## Note on instructions

When working in hazardous areas, the safety of personnel and equipment depends on compliance with the relevant safety regulations. The people in charge of installation and maintenance bear a special responsibility. It is essential that they have an exact knowledge of the applicable rules and regulations.

The instructions provide a summary of the most important safety measures and must be read by everyone working with the product so that they will be familiar with the correct handling of the product.

The instructions have to be kept for future reference and must be available throughout the expected life of the product.

## Description

The ComExflex illuminated buttons, type 07-3363-45\*\*/\*\*\*\* and type 07-3363-46\*\*/\*\*\*\*, are used everywhere in almost all hazardous areas where machine functions are to be activated at the touch of a button and the corresponding functional status is to be visually displayed.

The ComExflex illuminated button is designed for combining with an illuminated button actuator and a junction box. It is attached without tools to the illuminated button actuator. The connection is established by means of terminals at the back of the ComExflex illuminated button.

The illuminated button actuator is inserted into a mounting hole in an Ex e enclosure, a control console or control panel.

When inserted into a control console or control panel, there is the option of mounting the junction box. This is connected to the ComExflex illuminated button by means of two screws.

#### **Explosion protection**

#### ATEX

Ex type of protection (Ex) II 2 G Ex db eb IIC Gb (€x) | M2 Ex db eb | Mb

Certification CML 17 ATEX 1106U

#### IECEx

Ex type of protection Ex db eb IIC Gb Ex db eb I Mb

Certification IECEx CML 17.0046U

Other approvals and certificates, see www.bartec-group.com

#### Ambient temperature ranges

-55 °C to +50 °C (-67 °F to +122 °F) or +60 °C (+140 °F), if  $U_e = 12 \text{ V}$  to 24 V

#### Operating temperature ranges

-55 °C bis +85 °C (-67 °F bis +185 °F)

## Approved for zones

1 and 2

Storage/transport temperature -55 °C to +70 °C (-67 °F to +158 °F)

### Technical data

#### Protection class

Determined by illuminated button actuator and control station enclosure. Terminals: IP 20

With junction box and illuminated button actuator: up to IP 67

#### Rated insulation voltage 300 V

Power consumption ≤1 W

#### Rated voltage (U<sub>e</sub>)

AC 12 V to 250 V Ta < +50 °C (+122 °F) DC 12 V to 60 V Ta < +50 °C (+122 °F) AC/DC 12 V to 24 V Ta < +60 °C/ (+140 °F)

#### Enclosure material

Thermoplastic

#### Contacts

1 N/C or 1 N/O as snap switch element

#### Switching capacity contact element

AC-15	230 V	1 A
DC-13	24 V	0,25 A

## Connection

Terminal for 2.5 mm<sup>2</sup>, fine-wire

## Lamp

LED (red, green, yellow, white, blue)

## Illumination

Very bright, visible angle up to 180°

#### Service life

Electrical: > 10<sup>5</sup> running hours Mechanical: > 10<sup>5</sup> switching cycles

#### Weight

Approx. 110 g (0.24 lb)

#### Mounting

Locked, by bayonet lock

#### Shock resistance DIN EN 60068-2-27, 30 g 18 ms

#### Dimensions

See page 3

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#### Safety Instructions

The ComExflex illuminated button and the corresponding actuator may be used only within the specified ambient and operating temperature range.

Utilization in areas other than those specified or the alteration of the product by anyone other than the manufacturer will exempt BARTEC from liability for defects or any further liability.

Incorrect installation can cause malfunctioning and the loss of explosion protection.

Only service technicians who are authorized to work in potentially explosive atmospheres may do any of the assembly, disassembly, installation, commissioning, maintenance, and fault clearance work.

The generally applicable statutory rules and other binding directives relating to workplace safety, accident prevention and environmental protection must be observed.

When setting up or operating explosionresistant electrical systems, the IEC/EN 60079-14 (NEC for USA/CEC for Canada) and all relevant installation and operating regulations must be observed.

The ComExflex illuminated button may be used only if it is in a clean and undamaged condition. It is not permissible to modify the illuminated button in any way.

#### Marking

Particularly important points in these instructions are marked with a symbol:

#### 

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

#### **WARNING**

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

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CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

#### NOTICE

NOTICE is used to address practices not related to personal injury.

## (i) Note

Important instructions and information on effective, economical and environmentally compatible handling.

## Standards conformed to

EN 60079-0:2012 +A11: 2013 EN 60079-1:2014 EN 60079-7:2015 EN 60068-2-27:2009 EN 61000-6-2:2005 EN 61000-6-4:2007 +A1:2011 ComEx<sup>flex</sup> Illuminated button

Type 07-3363-47\*\*/\*\*\*\* and Type 07-3363-48\*\*/\*\*\*\*

IEC 60079-0:2011 Ed.6 IEC 60079-1:2014 Ed.7 IEC 60079-7:2015 Ed.5 IEC 60068-2-27:2008 IEC 61000-6-2:2005 IEC 61000-6-4:2006 + A1:2010

#### Transport, Storage

#### NOTICE

ComExflex Illuminated button damage through incorrect transport or incorrect storage.

- Transport and storage is permissible in original packaging only.
- $\triangleright$ Store the ComExflex illuminated button in a dry place.

#### Assembly, Installation

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Risk of serious injury due to incorrect proceedings.

- The IEC/EN 60079-14 and further national standards and locally applicable installation regulations have to be observed.
- Ensure that the voltage supply has been isolated or take suitable protective measures.
- $\triangleright$ Pay attention to the type of mounting (for fitting into required enclosure/attachment with junction box).

#### Assembly

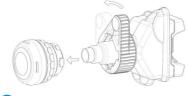
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Risk of serious accidents due to damaged parts.

Before assembly, ensure the perfect  $\geq$ condition of the components.

Mounting the ComExflex illuminated button:

- Make sure the illuminated button to be fitted is intact (no cracks).
- Position the ComExflex illuminated button's bayonet lock at the mounted illuminated button actuator.
- Turn the locking bolt to connect the ComExflex illuminated button securely to the illuminated button actuator.



## (i) Note

The assembly of the illuminated button actuator as well as the assembly of the illuminated button and the illuminated button actuator is described in the operating instructions for actuating elements, type 05-0003-00../....



#### Installation

#### For fitting into enclosure

In hazardous areas groups I and II, the illuminated button must be used:

- In appropriate enclosures with "Ex e" increased safety type of protection. The clearances and creepage distances under IEC/EN 60079-7 Section 4.3, Section 4.4 and Table 1 must be observed.
- In an enclosure that corresponds to another approved type of protection specified in IEC/EN 60079-0 Section 1.

#### With junction box

The ComExflex illuminated button must be installed as a stationary unit and with protection against the risk of mechanical damage.

## (i) Note

Avoid any capacitive influence from parallel conductors as well as any additional adverse heat effects on the cable.

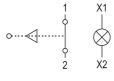
Take care when connecting conductors:

- Strip 40 mm (1.6 in) sheath off the conductor.
- Remove approx. 6 mm (0.2 in) conductor insulation from the cores.
- Prepare the ends of fine-stranded and multi-stranded conductors: Crimp wire end sleeves with suitable crimping tools. Connection cross-sections: 0.75-2.5 mm<sup>2</sup> (14-18 AWG).
- Release terminals.
- Insert conductors diagonally.
  - Tight the terminals with a maximum torque of 0.4-0.7 Nm (0.3-0.5 lb.ft), while holding the screwdriver slightly at an anale.

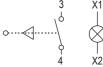


#### Terminal assignment:

Type 07-3363-47\*\*/\*\*\*\* 1 N/C



Type 07-3363-48\*\*/\*\*\*\* 1 N/O



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info@bartec.de www.bartec.de Reservation Technical data subject to change without notice. Changes, errors and EN 2/4 misprints may not be used as a basis for any claim for damages.

## Commissioning

Before commissioning, check that:

- The ComEx<sup>flex</sup> illuminated button has been installed in compliance with regulations.
- The ComEx<sup>flex</sup> illuminated button is not damaged.
- The connection has been established properly (make sure the cores are secure).

## Operation

#### A DANGER

Death or serious injury through improper use.

The ComEx<sup>flex</sup> illuminated button may be operated only within the technical limits that apply to it (see page 1).

## Maintenance and Fault Clearance

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Risk of serious injury due to incorrect proceedings.

- IEC/EN 60079-17 must be observed. It is recommended to formulate a maintenance plan according to this standard.
- Ensure that the voltage supply has been isolated or take suitable protective measures.

#### Maintenance

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Risk of serious accidents due to damaged parts.

Check ComEx<sup>flex</sup> illuminated buttons, illuminated button actuators, actuators, screw fittings, sealings and cables regularly for cracks and damage. Make sure that they are properly established.

#### NOTICE

ComExflex illuminated button/actuator damage due to incorrect cleaning.

It is not allowed to clean illuminated buttons/actuators with compressed air.

The operator of the ComEx<sup>flex</sup> illuminated button must keep it in good condition, operate it properly, monitor it and clean it regularly.

The owner/managing operator must schedule maintenance intervals which will suit the respective conditions of use.

## ComExflex Illuminated button

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#### Fault Clearance

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Risk of serious injury due to use of nonoriginal spare parts.

Use original parts only as replacements.

The ComEx<sup>flex</sup> illuminated button is defective if the switching unit does not perform switching functions any longer or the LED cannot light up any more.

Defective ComEx<sup>flex</sup> illuminated buttons cannot be repaired; they must be replaced considering this operational instruction.

A defective actuator can be taken off the ComEx<sup>flex</sup> illuminated button and replaced by a functioning actuator of the same type.

## (i) Note

For original parts, contact the firm of Bartec GmbH at the service address.

## Accessories, Spare Parts

#### (i) Note

The ComEx<sup>Itex</sup> illuminated button can be connected to a junction box. Information on the junction box and junction box assembly is described in the Operating Instructions for the junction box, order number 05-0042-0050.

For further accessories and spare parts, see BARTEC catalogue.

## Disposal

#### (i) Note

Environmental damage can be caused by incorrect waste disposal. When in doubt, local authorities or specialist disposal companies can provide information on environmentally friendly disposal.

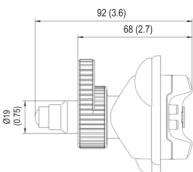
The components in the ComEx<sup>flex</sup> illuminated button and the illuminated button actuator contain metal and plastic parts. Therefore the statutory requirements for disposing of electronic scrap must be observed.

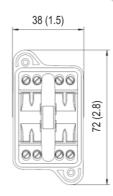


#### Service Address

BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany Tel.: +49 7931 597-0 Fax: +49 7931 597-119

## Dimensions in mm (in)



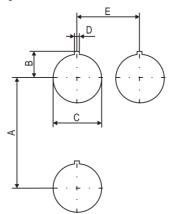


#### Installation dimensions

#### NOTICE

Damage to elements due to incorrect installation dimensions.

The minimum spacing between the mounting holes must be observed.



#### Dimensions:

	mm	in
A*	75	2.95
В	16.5	0.7
С	Ø 30.3 <sup>+0.3</sup>	Ø 1.2 <sup>+0.01</sup>
D	3	0.1
E*	40	1.6

\*Recommended spacing for mushroom pushbutton, slam button, and: position selector switches with protective shroud: 100 mm (3.9 in).

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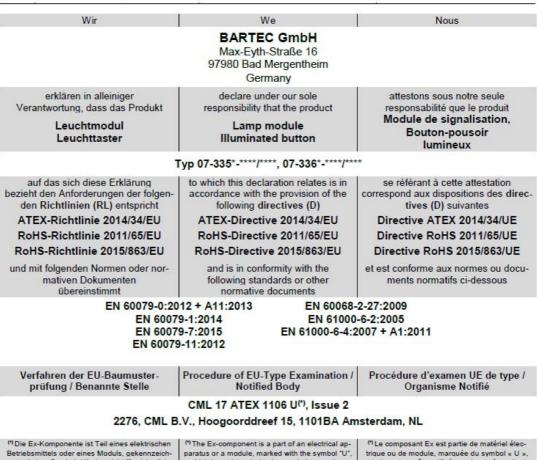
ComExflex Illuminated button Type 07-3363-47\*\*/\*\*\*\* and Type 07-3363-48\*\*/\*\*\*\*

## RARTEC

**BARTEC** 

#### EU Konformitätsbescheinigung EU Attestation of Conformity Attestation UE de conformité

Nº 01-3300-7C0002 C



Betriebsmittels oder eines Moduls, gekennzeich-net mit dem Symbol "U", das nicht für sich allein verwendet werden darf und über dessen Einbau in elektrische Betriebsmittel oder Systeme zur Verwendung in explosionsgefährdeten Bereichen gesondert entschieden werden muss.

Merkmale dieser Komponente sowie die Bedingungen für ihren Einbau in Geräte und Schutzsys-teme siehe Betriebsanleitung der Komponente.

which is not intended to be used alone and requires additional consideration when incorporated into electrical apparatus or systems for use in ex-plosive atmospheres.

Characteristics and how the component must be porated into equipment or protective syste see operation manual of the component.

trique ou de module, marquée du symbol « U », ne devant pas être utilisée seule et nécessitant une certification complémentaire lorsqu'elle est incorporée a un matériel électrique ou à un système pour atmosphères explosives.

Les caractéristiques du composant ainsi que les conditions d'incorporation dans des appareils ou des systèmes de protection regarde voir l'instruction d'emploi du composant.

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Bad Mergentheim, 23.08.2019

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