



Description

ComEx is a flexible system that offers both standardised and also customised local control and display stations.

The three standard enclosures, single (07-3511.), double (07-3512.) and triple (07-3513.) can be combined with the various actuators and switching and luminous modules.

Special oil-resistant actuating elements are available.

ComEx Control Stations

Explosion protection

Ex protection type

- Ex II 2G Ex ed IIC T6
- Ex II 2D Ex tD A21 IP 65/IP66/IP67 T80°C

- AEX ed IIC/Ex ed IIC
- Class I, Zone 1 AEX ed IIC, T6
- Class I, Division 2 Groups A, B, C, D
- Ex ed IIC, T6
- Ex tD A21 IP65/IP66/IP67 T80°C

Certification

- PTB 00 ATEX 1068
- UL E184198
- IECEX PTB 08.0022

Approved for Zones

- 1 and 2/21 and 22

Technical data

Protection class

up to IP 66/IP 67 (IEC 60529)

Ambient temperature

-55°C to +60°C
(- 20°C to +60°C for zones 21 and 22)

Rated insulation voltage

max. AC 690 V

Rated current

max. 16A

Type of connection

Terminals, 2.5mm²

PE conductor terminals

4 x 2.5mm²

Cable entry

Standard version:

M20 x 1.5 for cables with Ø 6 to 12 mm

Special version:

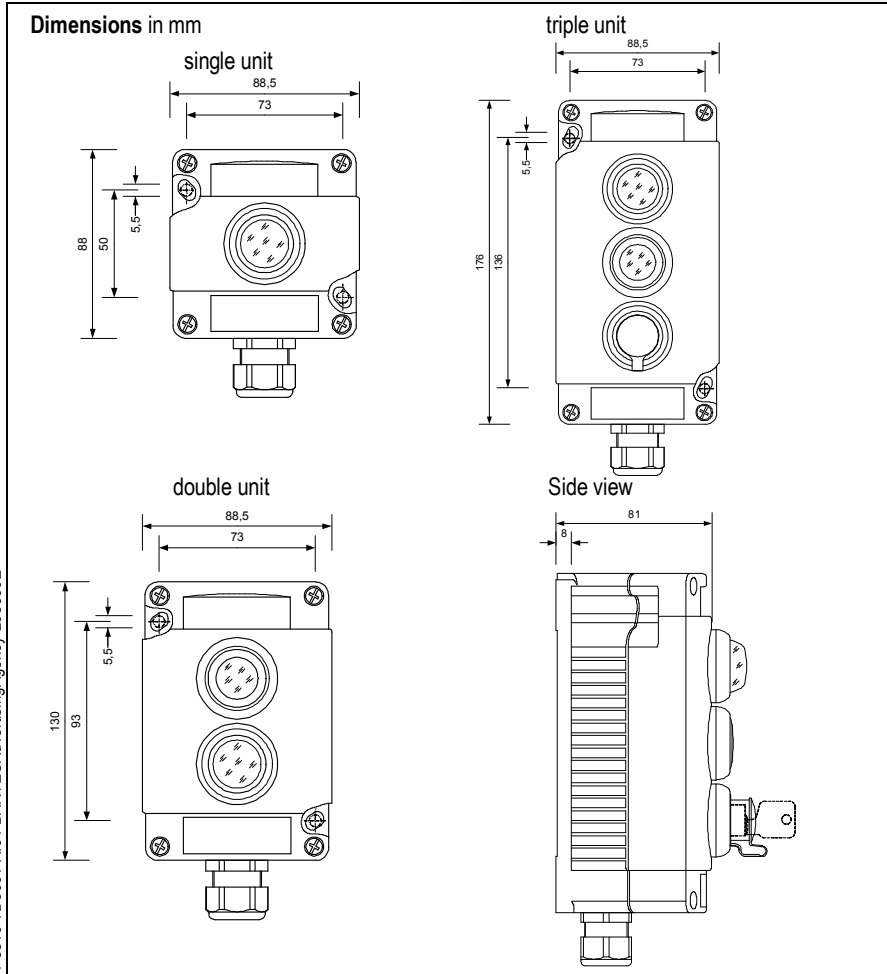
M20 x 1.5 for cables with Ø 5 to 9 mm

M25 x 1.5 for cables with Ø 13 to 18 mm

M25 x 1.5 for cables with Ø 9 to 16 mm

Enclosure material

Plastic (thermoplastic)



01-3510-7D0001-A, 01-BARTECAAdvertisingAgency-295990E

Safety Instructions

The ComEx device may be used only within the specified temperature range.

Unprotected, incorrect installation can cause malfunctioning and the loss of explosion proofness.

The ComEx device may be connected and mounted only by qualified personnel who are authorised and trained to assemble electric components in hazardous (potentially explosive) areas.

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

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

The ComEx device may be operated only if it is clean and not damaged in any way.

Marking

Particularly important points in these instructions are marked with a symbol

⚠ DANGER

Non-observance leads to death or serious physical injury. The necessary safety measures must be taken.

⚠ CAUTION

Warning of damage to property and financial and penal disadvantages (e.g. loss of guarantee rights, liability claims etc.).

👉 ATTENTION

Important instructions and information on preventing disadvantageous behaviour.

📄 NOTE

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

Standards conformed to

EN 60079-0:2006
 EN 60079-1:2004
 EN 60079-7:2007
 EN 61241-0:2006
 EN 61241-1:2004
 IEC 60079-0:2004
 IEC 60079-1:2003
 IEC 60079-7:2006
 IEC 61241-0:2004
 IEC 61241-1:2004

Assembly and Commissioning

👉 ATTENTION

Only authorised and qualified personnel may do any of the assembly, disassembly, installation and commissioning work.

⚠ CAUTION

The relevant installation and operating regulations must be observed when setting up or operating explosion-proof electric systems.

Check before assembly that the ComEx device is in perfect condition.

Assembly/disassembly

👉 ATTENTION

Only suitable tools may be used for the installation. Transport and store the ComEx device only in its original packaging.

Installation

👉 ATTENTION

Cables must be connected carefully, i.e.

- the insulation must extend up to the terminal,
- take care not to damage the conductor,
- all screws on the connection terminals, including unused ones, must be tightened securely
- all unused cable entries must be sealed with a certified stopper.
- It is essential to observe the necessary minimum protection level IP54 for protection against gas explosions and IP6x for protection against dust explosions. The devices are supplied with a minimum protection class of IP 6x.
- All cores must be connected to terminals approved under EN 60079-7.

Commissioning

👉 ATTENTION

Before commissioning check that:

- the device has been installed in compliance with regulations
- the device is not damaged
- the junction box is clean
- the connection has been established properly
- the cable has been laid in an orderly fashion
- all screws are tightened securely

📄 NOTE

The spare parts, actuators and switching and luminous modules are specified in the data sheet.

Operation

⚠ DANGER

The ComEx device may be operated only within the technical limits that apply to it (see the Explosion Protection and Technical Data sections).

⚠ CAUTION

It is not permissible to technically modify the ComEx device.

Maintenance and Fault Clearance

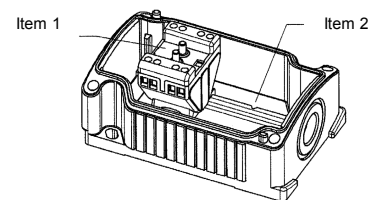
👉 ATTENTION

The operator of the ComEx must keep it in good condition, operate it properly, monitor it and clean it regularly. The ComEx must be checked regularly for cracks and damage.

Replacing / fitting the installation device

👉 ATTENTION

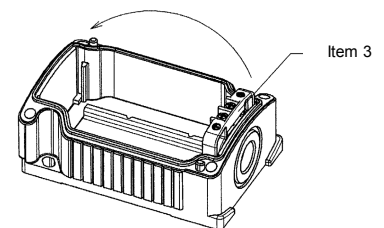
The devices (item 1) must be snapped onto the rail of the enclosure (item 2) with the latch positioned in the cut-out in the rail.



Replacing / fitting PE support

👉 ATTENTION

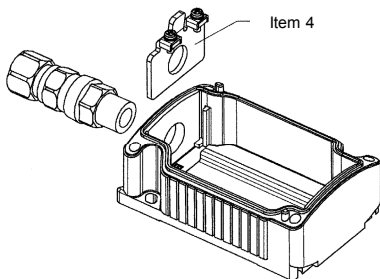
You have the option of inserting the PE support (item 3) for the protective conductor connection either at the top or the bottom of the enclosure.



Replacing / fitting the earthing plate

ATTENTION

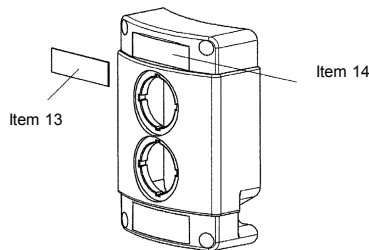
The earthing plate (item 4) for metal cable entries is pushed in between the rib and the inside wall of the enclosure and secured in place when the cable entry is screwed in.



Replacing / attaching the label

ATTENTION

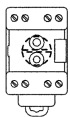
The labels (Pos. 13) are engraved or inscribed by hand and stuck into the recess provided in the enclosure cover (Pos. 14)



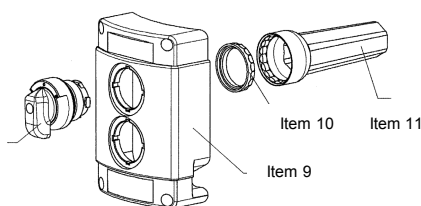
Replacing / fitting the actuating element

ATTENTION

With its projecting latch positioned correctly, each actuating element (item 8) is inserted into the hole in the enclosure cover (item 9) and secured in place with the retaining nut (item 10) using the wrench (item 11). If the actuating element being fitted is a position selector switch, make sure its actuating pins are in alignment over the metal plungers on the switch module (see sketch). The position of the built-in devices must agree with the actuating element used.



Sketch for mounting position of position selector switch



Accessories, Spare Parts

see also BARTEC catalogue.

Disposal

The components in the position switch and the actuator contain metal and plastic parts. For that reason the statutory requirements for electrical scrap must be adhered to when disposing of them (e.g. disposal by an approved disposal company).

Service Address

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Erklärung der Konformität
Declaration of Conformity
Attestation de conformité

N° 01-3510-7C0001

BARTEC

BARTEC GmbH
Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany



Wir

We

Nous

BARTEC GmbH,

erklären in alleiniger Verantwortung, dass das Produkt

declare under our sole responsibility that the product

attestons sous notre seule responsabilité que le produit

Befehls- und Anzeigerät

Control station

Auxiliaires de commande et de signalisation

Typ 07-351.-...../....

auf das sich diese Erklärung bezieht den Anforderungen der folgenden **Richtlinien (RL)** entspricht

to which this declaration relates is in accordance with the provision of the following **directives (D)**

se référant à cette attestation correspond aux dispositions des **directives (D)** suivantes

ATEX-Richtlinie 94/9/EG

ATEX-Directive 94/9/EC

ATEX-Directive 94/9/CE

und mit folgenden Normen oder normativen Dokumenten übereinstimmt

and is in conformity with the following standards or other normative documents

et est conforme aux normes ou documents normatifs ci-dessous

EN 60079-0:2006
EN 60079-1:2004
EN 60079-7 :2007
EN 61241-0:2006
EN 61241-1:2004

Kennzeichnung

Marking

Marquage

⊕ II 2G Ex ed IIC T6

⊕ II 2 D Ex tD A21 IP65/IP66/IP67 T80°C

Verfahren der EG-Baumusterprüfung

Procedure of EC-Type Examination

Procédure d'examen CE de type

PTB 00 ATEX 1068

CE 0044

Bad Mergentheim, den 07.12.2009

ppa. Ewald Warmuth
Geschäftsleitung / General Manager