



operating manual

**Industry camera
and Camera
„The safe loading station“
Morph Ex d e XLink
OPT HiRes
Coelbo-Typ SO.. , SOAX**

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1 Product description / job description

The pressure - resistant instrument housings of type S and SO .. Consist of one pressure - proof aluminum housing with stainless steel bolts and screws as well as a screwed cover. When the OR seal is inserted, the housing has a degree of protection of IP 66 and is suitable for use in Zone 1 (Cat. 2G) and Zone 21 (Cat. 2D).

The housings are for the installation of terminals, control, regulating and indicating devices

suitable. The housings can be extended by an extension between the base and cover can be increased.

The housings of type SO have a safety glass in their lid.

The construction, as well as the interaction of the individual components and the housing with regard to their suitability for use in explosive atmospheres,

Manufacturer on the basis of the approval of Coelbo and by marking with

the type plate. The intended installation of the camera electronics is by the company TecTradeSolution by attaching the embedding picture.

The explosion-proof camera of TecTradeSolution of type Morpheus

Ex de XLink OPT HiRes 25D is based on a SO57 housing with 1 optical

Process and plant monitoring IP video camera with safety function and SECVision-Control alarm sensor.

Technical Description Morpheus Ex de XLink OPT HiRes 25D

Interface on the housing: Exde device plug, connection coupling. (Additional) Ethernet 10/100

Connection via CAT6 network cable, up to 100m.

Power supply via PoE Switch (accessory)

Operating temperature: -40 to + 50 ° C

Power consumption: typ. 5.5 watts

Housing: Ex II 2G Ex d IIC T6 Gb
II 2D Ex tb IIIC T85 ° C Db

Cameras: Mineral glass,

Connection plug: II 2G Ex de IIC T6 Gb

Dimensions: Ø 130 x D: 102 mm, B 130 mm; H via plug
190mm, plus coupling 80mm

Weight: approx. 1000 g

2. Intended use

The pressure-resistant instrument housings of type S and SO .. are fixed in position Devices for use in Ex Zone 1 or 21. The pressure-resistant instrument housing of the

Type S and SO .. are not suitable for use in Zone 0 and Zone 20

are used to hold explosion-proof electrical and / or non-electrical

As well as their electrical connections with accessories. Mounting is effected by the fixed fastening possibilities of the housing.

The electrical data on the type plate as well as the equipment category for the place of use must be observed.

Modifications to the pressure-resistant instrument housings of type S and SO .. are only allowed

after prior consultation with the manufacturer.

3. Standards applied

EN 60079-0: 2014 / General requirements
EN 60079-1: 2007 / flameproof enclosure "d"
EN 60079-31: 2014 / Protection by housing "t"

4. Technical specifications

Housing material / material

Type S .. / SO .. Aluminum painted (e.g., RAL7000)
Type SOAX ... aluminox unpainted

Mechanical strength according to DIN EN 60079-0

Impact energy: 7 Nm for housing / 4 Nm for sight glass

Protection class according to EN 60529 / IEC 60529: maximum IP66

Ambient temperature range: Tamb -40 ° C to + 50 ° C

Explosion: II 2G Ex d IIC T6 Gb
II 2D Ex tb IIIC T85 ° C Db

EU type examination certificate BVI 14 ATEX 0068 X from Coelbo

5. Electrical data

Rated voltage: max. 48VDC
Rated current: 350mA
Max. Power Dissipation: 5.5W
Connection cross-section: 1.5mm²

6. Cable entries / connectors

Only cable entries / plugs certified for the respective category are used. Cable entries with metric threads must be secured against self-loosening with a suitable screw-type safety device (temperature range). Unused bores for cable entries must be closed by means of suitable locking elements for the device category used. The assembly instructions and safety instructions of the manufacturer of the components are to be observed
note. As an alternative to cable entry, the electrical connection can be connected via a Device type CEAG type GHG 57.

7. Safety Instructions

The equipment is in an electrical installation in a potentially explosive atmosphere to keep the operator in a proper condition, to operate properly, to operate monitor and perform maintenance and repair work. To it is also necessary to check the equipment before commissioning
Transport damage.
Installation / disassembly, operation and maintenance work may only be carried out by qualified personnel
Specialists.
All mandatory legal rules and other mandatory Directives on occupational safety, accident prevention and environmental protection become.



**Do not open the equipment under voltage!
A defective operating device must not be operated!**

8. Assembly and installation

Assembly

When erecting and operating explosion - protected electrical equipment, to provide protection against harmful environmental influences which may affect the intended use of the equipment. This can be done
Example should be protection against aggressive liquids or climate protection. Note during installation EN 60079-14, EN60079-17 and EN 60079-31 and other valid national standards and regulations at the place of assembly.
The information on the type plate and in the EC type-examination certificate are attached note.
The assembly is carried out by means of the fixed fastening possibilities of the housing, or via corresponding fastening lugs. To maintain the IP Protection degree IP66 must be opened after each opening of the housing, the cover O-ring correct fit and undamaged condition

Installation

The conductor connection to the pressure - resistant housing must be carried out carefully, so that the
Single cores are not damaged. Observe maximum connection data on the Nameplate.
A potential equalization is required for metallic housings in explosive areas with at least 4 mm².
For electrical connection via plug observe the operating instructions of Ceag.

9. Getting started

Prior to initial start - up, the equipment is identified by its marking its suitability in the relevant zone. The one on the nameplate must not be exceeded. When using the equipment within explosive areas caused by dust is a deposit of same above than 5mm not allowed- for this purpose is under some circumstances an install of an additional cover when a deposit of dust cannot be reliably avoided.

The functional safety of the equipment as well as the functional arrangement of the Operating equipment within the system must be checked before commissioning. The use may only be carried out in an undamaged and clean condition.

10. Operation, maintenance and troubleshooting

The operator of an electrical installation in an explosive atmosphere has the To keep the equipment in a proper condition, to operate it properly monitor and perform maintenance and repair work. Please refer including EN 60079-17 and / or EN 60079-31.

Maintenance work and troubleshooting work may only be carried out by trained personnel Specialists.

Prior to maintenance and / or fault rectification, the indicated Observe safety regulations. The warnings on the equipment are too high note!

Only original parts may be used for maintenance and fault rectification Consultation with the manufacturer.

The applicable laws and regulations must be observed before commissioning

11. Related documents

Original Operating instructions Coelbo, BVI 14 ATEX 0068X
operating instructions ExLink connector CEAG (optional)

12. Accessories, spare parts

Accessories and spare parts contact us at: info@sedi-international.com

13. Service address for maintenance:

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