EXH
EXPLOSION-PROOF HOUSINGS

MAIN FEATURES

Solid anticorodal aluminium construction

Epoxypolyester powder painting, RAL7032

IP66

Certification ATEX, IECEx, GOST-R e CNEX

DESCRIPTION

The EXH housings are made with strong Anticorodal aluminium die-cast alloy of AlSi Mg EN AB- 42000 group. Depending on the model, all external components are stove enameled using powder or with special coatings offering an excellent resistance to UV rays, salt-spray, environment polluting substances (mod. 003R, mod. 005R). They are constructed according to the 94/9/CE ATEX standard,IEC 60079-0: 2007, IEC 60079-1: 2007, IEC 60079-31: 2008, GOST-R standard and the Chinese standards.

EXHC

The cylindrical body of EXHC housing (diameter 210mm and length 400mm) is closed on the opposite sides by two 12mm thick flanges. The housing is supplied with two holes for the 3/4" NPT cable glands. The camera housing is equipped with heater and optional sunshield.

EXHD

Explosion-proof housing with the same specifications as the EXHC series but fitted with a patented device for the protection of the glass which gives clear vision in dirty environments.

The glass protection device consists of a connection flange with the housing, a closing flange and an explosion-proof central body containing a rugged and transparent glass, a motor powered in 24Vac, two windings and a transparent Mylar film, installed just in front of the glass. The motor drives, through four pinions with gear rim, the winding for recovering the dirty Mylar film, while at the same time the other winding installed on the opposite side releases the clean film.

NOTE: the control unit of the glass protection device is not supplied with the product.

The transparent Mylar film, 80mm wide and 18m long, allows 350 steps. When the film is dirty, the operator will activate the motor shifting the film to obtain a clean camera picture (the step for allowing the complete shift of the dirty film is about 50mm). The end of the Mylar film will be indicated to the operator through marks printed on the last 50cm of the film.

EXHC + EXHS

EXHD + EXHS

EXHC003R + EXWBJ00R

AVAILABLE MODELS

Model Number	Housing heater 24Vac	Housing heater 230Vac	Reinforced heater 24Vac	Glass protection device	Max consumption
EXHC000	•				20W
EXHC200		•			20W
EXHC003R			•		60W
EXHD001	•			•	22W
EXHD005R			•	•	62W

TECHNICAL DATA

GENERAL

Non-corrosive die-cast aluminium (anticorodal)

Bicomponent polyurethane enamel with orange peel effect, RAL7032

Special painting for low temperature, blue colour RAL7001(EXHC003R, EXHD005R, EXWBJ00R, EXBJ00R). Resistant to stress cracking, adverse weather conditions, detergents, salt-spray and typical airborne pollutants

MECHANICAL

2 holes for cable glands 3/4" NPT

External dimensions:

- EXHC Ø 210mmx427.5mm (8.2x16.8in)
- EXHD Ø 250x573.5mm (9.8x22.6in)

Internal Dimensions:

- EXHC Ø 180x380mm (7x14.9in)
- EXHD Ø 180x460mm (7x18.1in)

Internal usable area:

- EXHC 100x100x280mm (3.9x3.9x11in)
- EXHD 100x100x280mm (3.9x3.9x11in)

Glass window:

- EXHC Ø 114mm (4.5in)
- EXHD 70x56mm (2.7x2.2in)

Weight:

- EXHC 15kg / 33lb
- EXHD 24kg / 52.9lb

Glass protection device:

- Glass protection device Ø 250x140mm (9,8x5,5in)
- Mylar film 80mm (3.1in) wide and 18m (59ft) length, 350 shifting steps, marks printed on the last 50cm (19in)

ELECTRICAL

Heater Ton 10°C±4°C (50°F±7°F) Toff 25°C±3°C (77°F±5°F)

- IN 24Vac, consumption 20W max
- IN 230Vac, consumption 20W max (only for EXHC200)

Reinforced heater Ton 10°C±4°C (50°F±7°F) Toff 25°C±3°C (77°F±5°F)

- IN 24Vac, consumption 20W max
- 3 resistors in the housing, consumption 60W max

Glass protection device:

- 24Vac/Vdc, consumption 2W max

Devices to install inside the housing

- Camera equipped with lens with max total power of 20W
- Power supply max 24Vac or 230Vac
- Usable volume for camera/lens: 2800cm^3
- Minimum distance between the walls of the housing and the camera/lens: 12mm

ENVIRONMENT

Indoor / Outdoor

Operating temperature with heater: -20°C / +50°C (-4°F / +122°F)

Operating temperature with reinforced heater: -40°C / +50°C (-40°F/+122°F)

Always refer to the temperature in the marking.

CERTIFICATIONS

ATEX (EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-31: 2009)

- Ⓔx II 2G Ex d IIC T6 Gb
- Ⓔx II 2D Ex t IIIC T85 °C Db IP66

CE 0044: notify number from competent body

IECEx (IEC 60079-0: 2007, IEC 60079-1: 2007, IEC 60079-31: 2008)

- Ex d IIC T6 Gb
- Ex t IIIC T85 °C Db IP66

GOST-R

- Ex d IIC T6 Gb
- Ex tb IIIC T85°C Db IP66

CNEX

- Ex d IIC T6 DIP A21 TA T6

ACCESSORIES

EXHS000	Sunshield 650mm (25,6in) for EXHC
EXHS001	Sunshield 760mm for EXHD

BRACKETS AND ADAPTORS

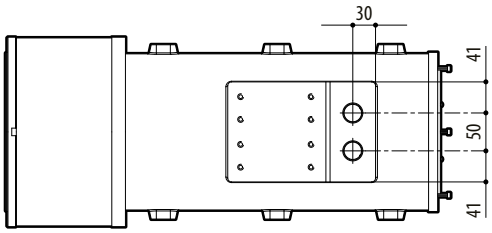
EXWBJ000	Bracket and ball joint for EXH RAL7032
EXWBJ00R	Bracket and ball joint for EXH RAL7001
EXBJ000	Ball joint for EXH RAL7032
EXBJ00R	Ball joint for EXH RAL7001

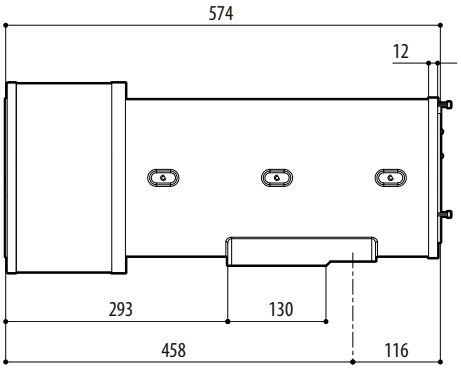
SPARE PARTS

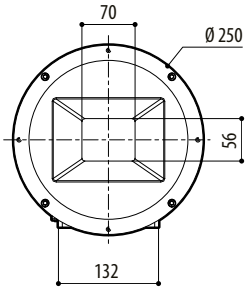
OCTEX3/4C	Cable gland with gasket EX 3/4" NPT, unarmoured cable IECEX-ATEX-GOST
OCTEXA3/4C	Cable gland with gasket EX 3/4" NPT, armoured cable IECEX-ATEX-GOST
OCTEXB3/4C	Barrier cable gland 3/4" NPT, unarmoured cable IECEX-ATEX-GOST
OCTEXBA3/4C	Barrier cable gland 3/4" NPT, armoured cable IECEX-ATEX-GOST
OCTEX3/4	Cable gland with gasket EX 3/4" NPT, unarmoured cable ATEX
OCTEXA3/4	Cable gland with gasket EX 3/4" NPT, armoured cable ATEX
OEXPLUG3/4	Plug EX 3/4" NPT IECEX, ATEX, GOST
OEXMYLAR	Mylar film replacement kit, 18m (59ft), 350 steps
OEXVET	Complete front flange with glass for EXHC and EXPTC series, RAL7032
OEXDPV	Complete front flange with glass protection device for EXHD and EXPTD series, RAL7032
OSLIEX	Internal slide complete with heater for EXHC and EXPTC series
OSLIEXD	Internal slide complete with heater for EXHD and EXPTD series

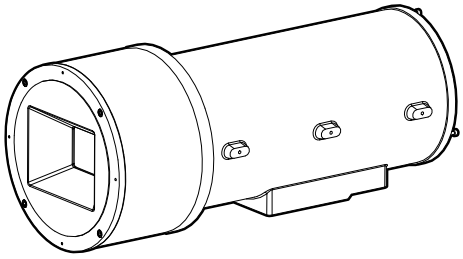
SELECTION TABLE FOR CABLE GLANDS

Zone, Gas	Cable gland type	Certification	Operating temperature	Cable	Cable glands part code	Diameter of the external cable (mm)	Under armor cable diameter (mm)
IIC, Zone 1 or Zone 2 IIB or IIA, Zone 1	Barrier	IECEX/ATEX/GOST	-60 / +80°C (-76°F / +176°F)	Not armored	OCTEXB3/4C	13 - 20.2	
				Armored	OCTEXBA3/4C	16.9 - 26	
IIB or IIA, Zone 2	With gasket	IECEX/ATEX/GOST	-60 / +100°C (-76°F / +212°F)	Not armored	OCTEX3/4C	13 - 20.2	
				Armored	OCTEXA3/4C	16.9 - 26	11.1 - 19.7
		ATEX	-20 / +80°C (-4°F / + 176°F)	Not armored	OCTEX3/4	14 - 17	
				Armored	OCTEXA3/4	18 - 23	14 - 17

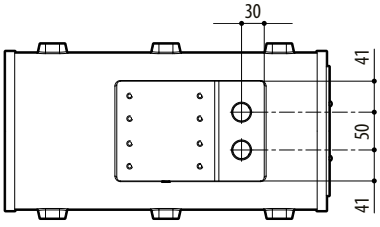


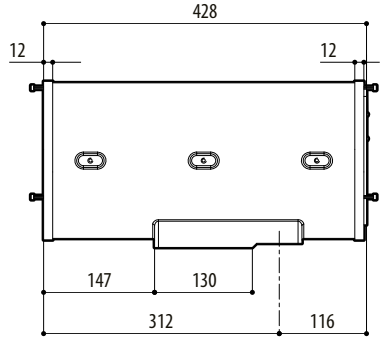


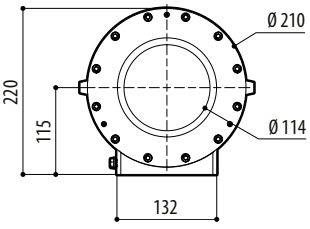


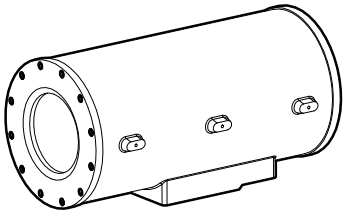


EXHD









EXHC