Explosion proof ATEX camera housings
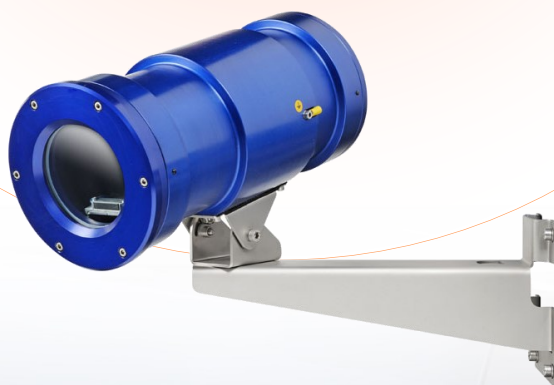

ATEX and

IECex certified

ANTOCORODAL ALUMINIUM / STAINLESS STEEL AISA 326L

General Description:

Explosion proof housing to be installed in zone where the forming of potentially explosive atmosphere is possible due to the presence of Group IIB-IIC gasses, fumes, smokes and powders even mixed among them. It can be installed in hazardous locations, indoor or outdoor, classified 1-21, 2-22 in which the environment temperature has to be included between –20 and +50 °C or between – 50 and +50°C.

Constructed of anticorodal aluminium for sites with potentially explosive atmosphere where electrical constructions of Group II, cathegory 2, are foreseen.

On request, it can be constructed of Bronze B14 or Stainless Steel and in this case it can be used in mines, where electrical constructions of Group I, cathegory M2, are foreseen.

It is also available a special version with Germanium filter and protection grid for thermal cameras. The anodic oxidation treatment assures an extremely high resistance against corrosion from atmospheres agents, salty fog or polluting elements of the air.

On the back side, two ½" or ¾" cable glands allow to feed the devices inside the housing in high or low voltage. On request, cable glands of different brands and different kind can be provided. As a consequence of the zone where the housing has to be installed, there will be used cable glands with seal rubber (suitable for zone with presence of Group IIB gases) or barrier cable glands with connection cables sealed (suitable for zone with presence of Group IIC gases). All this in conformity with the electrical plants laws in force.

Internal devices

On its inner, the housing is provided of a heating system with one or three PTC to avoid the condensation on the glass. These heating elements are working with 12 to 24V and with 100 to 240V voltages and are driven by a thermostat positioned on the circuit board which allows the electrical connection of all the feeded elements with the main voltage. Depending on the model required, the housing can be equipped also with a factory installed power supply, useful to correctly feed the devices in case that their feeding voltage is different than the mail voltage. The power supply can be supplied with three different voltages: 230V~/12VDC, 230V~/24V~, 115V~/24V~, 24Vac/12VDC.

High Power over Ethernet

The Hi-PoE MKII splitter for IP Cameras or the Hi-PoE MKII PLUS for IP PoE cameras are available. Video data and feeding power are brought in through one single CAT5e cable with a Punch Down Terminal for a fast connection of the cable.

Laser devices

It is well known that laser devices, radiation class 1 and 2, do find many applications for civil as well as industrial use. In particular, they are utilized to monitor industrial processes, to measure levels and distances, to control moving objects, to check the position of objects (i.e. vessels, cars, etc). In these applications it is often required to the laser device to be explosion proof, being the installation in one of those areas defined as potentially explosives. The Atex certification covers laser devices radiation class 1 and 2, making the CHEP enclosure the proper answer for these applications.

Installation

The installer has to open the housing to install the devices internally, except for those who are already supplied by the manufacturer. Specifically, for the CCTV there will be the use of analog cameras to reproduce the video image through a coax cable, or digital through Ethernet. At present, the market of those systems offer a wide range of brands for such devices.The installer will choose the best camera for the particular installation. This operation see the dismount of the back closing flange which is equipped with cable glands and it is fixed to the housing body by six screws. Three additional screws with a smaller diameter are supplied: these screws, set at 120° one to the other, can make the job even much easier. Actually,screwing these additional screws one turn at the time, after having unscrewed the other six screws, the flange comes out smoothly. For the correct positioning of the devices the housing is equipped with an internal slide on which they can be fixed by means of screws. During the installation it is important to have the right adjustment height of the camera respect to its leaning level. So, the image will be balanced on the frontal window. This operation is possible due to the provided adjusting height kit which works also as insulator from the internal slide. At the end of all the operations it is necessary to close the housing using the six screws that were unscrewed at the beginning of the operation. On demand the housing can be equipped with sunshield, frontal glass protection grid, bracket with swivel for wall or ceiling fixing. The accessories are sold as spare where the assembling is done by the installer

Ethernet Optical Media converter

Ethernet Optical Media converter

EXPLOSION PROOF HOUSING

Different versions available to satisfy the different specs required by different hazardous enviroments

USER FRIENDLY

All professional installers can easily install on-site the Ex housing and camera.

FOR EXTREMELY HARSH ENVIRONMENTS

Temperature range from −50°C to + 50°C , protection rate IP66 and IP67, entirely constructed of Stainless Steel AISA316L possible to install a glass protection grid.

AVAILABLE WITH PoE MKII SPLITTER

Video data and feeding power are brought in through one single CAT5e or higher cable. New Punch Down Terminal last correction.

BCE
Bos Consultancy Enterprises

Sunshield

Germanium filter

PiPoE MKII

Marking Data

BCE
Bos Consultancy Enterprises

BCE Bos Consultancy Enterprises

BCE Bos Consultancy Enterprises is a Dutch based company, constantly building, extending and maintaining a network of distributors throughout Europe and Russia. Our aim is to identify resellers in each country to establish reliable long-term partnerships. **BCE** has the wide knowledge and specialization to deliver solutions for the high end of the security spectrum. **BCE** represents a large number of international manufacturers specialized in video networks for cities and industrial zones, thermal camera's, switches, personal media radio systems and covert solutions like as:

Wavesight

Wireless Video Outdoor Network solutions suitables at cities, harbors, airports and industrial areas. Providing stable Point to Point and Point to Multipoint connections up to 300 Mbps and 40 kilometers of distance with license free and licensed connections.

Switches, power supplies and Surge Protectors.

A great variety of industrial and desktop switches. Managed, Unmanaged, PoE, PoE+ switches suitable for integrated use at surveillance systems of cameras and wireless radio configurations. Up to 1 Gb.

RapidCam

RapdiCam is a rapid to deploy, user friendly stand alone camera solution which can be used for observation and covert covert purposes.

Thermal camera program.

Thermal camera solutions for use at Industrial sites, Border control, Airports, Harbours, Perimeters etc. For bright exposure in colour at day time and monochrome during night time. Solutions up to a distance of 5 kilometers.

ANPR Camera Program.

ANPR camera program to monitor number plates at sites, parking lots, entry/exit gates and highways at speeds up to 220 kmph. On request delivered with/as:

- ANPR software
- Built-in at stainless steel pole.

DigiController

IP based I/O controller supporting many connectivity protocols. With web based interface, DIN rail mount and small form factor.

Body Warn Camera program.

The most reliable Portable Law Enforcment camera system used at Police, Special forces, border Control, fire brigades, Surveillance and Security Guards

Smartdect

Full stand alone camera system. Can be either used as point to point communication as well as within remote network environments. Specially designed for observation and covert operations.
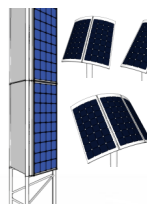
Cartag

Wireless security system protect stealing parts from cars parked at parking places of car dealers, lease companies and fleet owners.

Patio Mounts and Brackets.

Robust steel galvanised, aluminium or stainless steel patio mounts, pole extenders, L + M wall brackets and U-clambs in different size and design. Ideal for easy installation of radios and cameras at top of buildings, poles and walls.

Stand Alone Solar Power Systems.

The small light weight and rapid deploy solar solution for cameras and radio's at sites without any infrastructure. Complete pre-assembled pole solution on request.

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