



国家防爆

Electrical Apparatus for Explosive Atmospheres

# CERTIFICATE OF CONFORMITY

Cert. No.: CNEx17.1245X

**Manufacturer** Eaton MEDC Ltd (Oxalis)  
Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield, NG17 5FB, United Kingdom

**Name of Product** Pan and Tilt Cameras

**Type of Product** 14XX and 24XX series

**Marking** Ex d IIC T6...T4 Gb\*  
Ex tb IIIC T135°C Db IP6X\*  
\*\*\*C ≤ Ta ≤ +\*\*C  
(\*, \*\*: see Annex of this certificate for detailed information)

**Drawing No.** OXCT-0001, XC, XF, XP, XT

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB3836.1-2010 Explosive atmospheres Part 1: Equipment-General requirements

GB3836.2-2010 Explosive atmospheres Part 2: Flameproof enclosure 'd'

IEC60079-31:2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

**Note** See Annex (3 pages).

**Valid Date** From Apr 26, 2017 to Apr 25, 2022

**Issue Date** Apr 26, 2017

**Director**



CHINA NATIONAL QUALITY SUPERVISION AND TEST CENTRE  
FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS

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Note: This certificate is only valid for the products which identify with the sample(s) tested and verified. Holder(s) of this certificate have the responsibility to ensure the products complying with relevant standard(s).

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Page 1 of 3

1. This product has obtained IECEx certificate, No : IECEx ITS 15.0068X, issue 1 (2016-11-23).
2. Equipment description:

The Camera Housing is constructed from stainless steel AISI316L with glass windows and designed to accommodate a range of CCTV cameras, infra-red cameras, lenses and associated ancillary equipment to allow their deployment in harsh environmental conditions. The housing has facilities for optional items such as window demister/heater, internal window wiper mechanism, integral window washer pump and external sunshield.

The unit is 260mm to 600mm in length (dependant on model) and is constructed from 139.7mm diameter cylindrical tube and 154mm diameter end covers. The unit has a cemented window assembly in one end cover, with the opposite end cover being either a blank end plate, end plate with up to three cable entries available in M20, M25, 1/2" or 3/4" NPT thread forms. The cable entry to the camera housing is either via a cable entry adaptor in the side of the housing tube or via the tilt motor shaft attachment flange when mounted to a Pan/Tilt unit. When fitted with Germanium windows, for use with infra-red cameras, a protective guard plate is factory fitted on the window end cover and secured in place.

The Camera Housing has welded joints and is therefore to be subjected to routine overpressure tests. The IR model is fitted with an infrared LED illuminator which is fitted in place of a camera.

The integrated Pan & Tilt Unit would be used in conjunction with the Camera Housing where installations require a moveable camera.

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Page 2 of 3

This Pan & Tilt Unit is also constructed from AISI316L stainless steel and can be fitted with either AC fixed speed or DC variable speed motors. The Pan & Tilt Unit with integral base mount is 300mm wide and 485mm high. There is one cable entry in the base mount which has one M25 threaded flamepath. There are four spigot flamepaths, two where the end covers fit into the housing and two where the motor/gearbox assemblies connect to the housing. In addition there are 2 cylindrical flamepaths for the motor shafts allowing for the pan and tilt movement.

The Pan & Tilt Unit has welded joints and is therefore to be subjected to routine overpressure tests. An alternate base unit can also be provided with a M110x1.5 threaded cover for readily accessing wiring terminals. This is secured with a hexagonal grub screw.

Internal and external earthing points are provided.

Options are also available fitted with an optical output for data transmission purposes and antennas with associated barriers.

Only suitably certified cable glands, thread adaptors or blanking elements to be utilized as detailed on the certificate.

3. Marking:

Ex db IIC T6 ..T4 Gb\*

Ex tb IIIC T135°C Db IP6X\*

\* Coding reflects the standard camera variant, refer to certificate appendix for further details.

\*\* Ambient temperature varies depending upon equipment configuration, refer to certificate appendix for further details.

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Page 3 of 3

4. Special conditions for safe use

The following conditions of use apply to the end user of the equipment. Refer to the certificate appendix for the conditions of manufacture, which apply to the manufacturer Oxalis.

- No modifications must be made to the flamepaths of the unit without consultation of the drawings listed on the schedule.
- Temperatures could exceed 70°C at the cable gland or 80°C at the branching point, suitably rated cable must be selected.
- Use only hex socket head fasteners with property class of A4-70 for securing end covers & shafts to housings.
- No electromagnetic or ultrasonic energy radiating equipment shall be fitted within the enclosures other than armoured/protected fibre optic cables (op pr) or the IR illuminator as specified in the documents.
- When fitted, the optical fibre output from the camera housing must always be terminated within a suitably certified enclosure or safe area.
- Only armoured cable or conduit is to be utilized when fitted with a fibre optic output in order to protect the fibre optic cable.
- Precautions must be taken to avoid dust from forming layers on the equipment.

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