



P/N: A.007376

**CAMERA EMOS EX 90° ETHERNET** 

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**CAMERA EMOS EX 60° ETHERNET** 

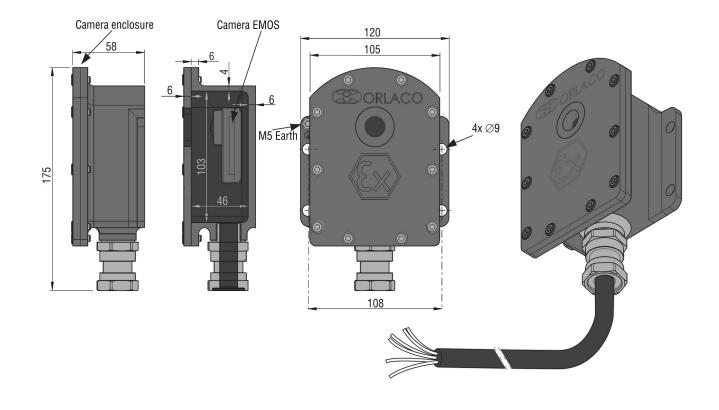
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**CAMERA EMOS EX 30° ETHERNET** 

| Description           |  |   |  |
|-----------------------|--|---|--|
|                       | A.007376   | A.007377  | A.007378   |
| Lens specified        | 90°  | 60°   | 30°  |
| Horizontal lens angle | 90°  | 60°   | 30°  |
| Vertical lens angle   | 68°  | 45°   | 22°  |
| Sensor element        | High resolution 1/3" CMOS rolling shutter, 1280H x 960V  |   |  |
| Video image           | 60fps at 720p SDR, 45fps at 960p SDR image processing and 56fps at 720p HDR, 43fps at 960p HDR image processing  |   |  |
| Protocols             | RTP (MJPEG RFC2435 and h.264 RFC6184) over UDP, PTP and gPTP, ISO17215-2014, IEEE1722 (AVB), ARP   |   |  |
| IP address            | DHCPv4 or static IPv4 (  | IPv6 possible)  |  |
| Latency               | <100ms depending on hardware processing platform (50ms demonstrated on Orlaco hardware)  |   |  |
| Light sensitivity     | responsitivity 5,5V/lux-   | sec, Low light feature (<0,1                                | Lux)   |
| High dynamic range    | >115dB   |   |  |
| Compression           | MJPEG, H.264 (High 10  | intra profile encoding)                                     |  |
| Interface             | 100Mb/s (Fast Etherne  | t)  |  |
| Image processing      | Color and gamma correction, 3D noise correction, edge enhancement, digital WDR, advanced contrast enhancement, auto white-balance, auto exposure control, mirroring, flipping, photometric and geometric lens distortion correction. |   |  |
| Electrical            |  |   |  |
| Power input           | activated. This overvolt   | tage protection is deactivat<br>are Short Circuit Protected | above 33V the overvoltage protection is sed below 30V. Powercircuit is protected d. In all these above mentioned values; a |
| Power consumption     | <2W  |   |  |
| Transient protection  | protection since camer   |   | V battery without additional electrical that protects the camera against over-(ISO-Pulses).                                |
| Cable                 | Cable length 5m, open ply.   | wires, 6 wire: 2x twisted p                                 | air for data and 2 wires for power sup-  |



| Mechanical           |   |  |
|----------------------|---|--|
| Housing Ex enclosure | Material Stainless steel 316  |  |
| Filling              | Camera is potted with automotive potting resin  |  |
| Ingress protection   | IP66 / IP67   |  |
| Shock constancy      | Shock and vibration resistant for usage on trucks, cranes, fork-lifts, maritime applications, machinery.  |  |
| Truck use            | Withstand all fluids and materials used in and around trucks like: ammonia solution 5%, ethanol 80-100%, isopropanol 5-10%, soapy water (min. 50% soap per volume), alkaline degreasing compounds(used in high pressure washing equipment).                   |  |
| Certification        |   |  |
| Approvals            | Suitable for use in Funday 24/22 and 4/2  |  |
| Αμβιοναίδ            | Suitable for use in Ex zone 21/22 and 1/2  Atex, directive 2014/34/EUd  IEC 60079-0:2011, EN 60079-0:2012/+A11: 2013  IEC/EN 60079-1: 2014, EN 13309  ISO 13766 EN ISO 14982 FCC  UNECE R10  Ex-Code Ex db IIC T6 Gb, Tamb: -40°C + 70°C Ex tb IIIC T 85°C Db |  |
| Αμφιοναίς            | Atex, directive 2014/34/EUd IEC 60079-0:2011, EN 60079-0:2012/+A11: 2013 IEC/EN 60079-1: 2014, EN 13309 ISO 13766 EN ISO 14982 FCC UNECE R10  Ex-Code Ex db IIC T6 Gb, Tamb: -40°C + 70°C   |  |



## Description of camera pigtail

The Emos IP Camera has a standard pigt il. The pigtail charasteristics are mentioned below

## Design & Materials of camera pigtail

A1 Conductor Bare copper, twisted pair, 2 x AWG26, 19 x 0,10mm.

Color: Orange, Orange/White, .

Bare copper, twisted pair, 2 x AWG26, 19 x 0,10mm. **B1** Conductor

Color: Green, Green/White.

Bare copper, straight, 2 x AWG20, 19 x 0,20mm. C1 Conductor

Color: Black, Red.

PUR, overall diameter 6,8mm +/-0,2mm, Color: Black RAL 9005. Jacket

Shield Tinned copper, braided 85%.

-40°...+85°C Temperature Range

Approvals Flame resistance acc. IEC 60332-2; Oil resistance acc. EN50363-10;

Halogen free acc. IEC 60754-1, EN50237-2-1,

VDE 0472-815; RoHS compliance acc. 2006/95/CE, 2004/108/CE, 2011/65/CE;

UV resistance acc. UL1581 300h.

Minimal Bending Radius 7,5 x diameter.

