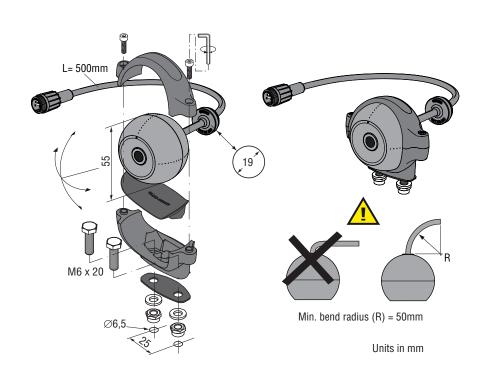


Camera FAMOS 60° PAL Mirror Article no. 0171960 Camera FAMOS 129° PAL Mirror Article no. 0171880 2019 • DS0961140 EN A 05

Product Data









TECHNICAL DATA

Camera FAMOS 60/129° PAL Mirror

Description

0171960 Article number PAL 0171880

> FAMOS 60° PAL Mirror FAMOS 129° PAL Mirror

60° Lens specified 129° Horizontal lens angle 60° 129° Vertical lens angle 44°

Sensor

Video signal PAL = 720(H)x576(V) 50fld/s. 1 Vtt composite video into 75 Ohm.

Sensor element 1/4" CMOS digital image sensor. 640 H x 480 V.

Light sensitivity <0.05 Lux. **Dynamic Range** 80dB.

Electrical

12...24V/DC. Power input

> Below 6V: camera is non functional. Between 7V heating element automatically activated (20% capacity). At 8V the camera is fully functional and the heating is at 40% of its capacity. At 12V the heating is at 100% capacity. Between 12V and 33V camera and heating element are fully functional. Above 33V the overvoltage protection is activated and camera plus heating element are switched off. This overvoltage-protection is deactivated below 32V. Powercircuit is protected up to 80V/Dc.

Outputs are Short Circuit Protected.

In all these above mentioned values; a tolerance of +/-10% is applied.

Heating off: 1.1W at 12V, 1.2W at 24V; Heating on: Max. power at 24V 0,15A = 3,6W. Max. power at 12V 0.28A = 3.4W. Power consumption Inrush current 0.5A at 12V and 1.0A at 24V (t < 2ms. peak (>90%) t = 0.3ms).

2.4W max. Pulse width modulated, activated from +30°C (min) to -40°C. Heater element

Transient protection Camera may be powered directly from 12V or 24V battery without additional electrical protection since camera has an

integrated circuit that protects the camera against over- and undervoltage, spikes, ripples and loaddumps.

Connectors 0,5m cable with 4p molded male connector (camera power input and video output).

Min. cable bend radius 50mm.

Mechanical

Cycoloy (PC + ABS). Filling: Camera is potted with Polyurethane elastomer. Housing

Ingress protection IP67 according to IEC 60529; dust tight and protected against the effects of continuous immersion in water up to 1m

for 30 minutes. IP69k according to DIN 40050-9: camera can withstand a high pressure cleaning with water:

14-16L/min. 80°C and 100 bars flow.

Mounting hardware

Shock constancy

Shock and vibration resistant for usage on trucks, cranes, fork-lifts, maritime applications, machinery. Random vibration

test 15,3Grms at frequency: 24 to 2000, PSD (g²/Hz) 0,04 to 0,10.

Material: glass reinforced polyamide, test: 50 Nm at -40°C to +85°C. Camera bracket 0,21kg, 0,29 in standard packing. Weight

Standard stainless steel.

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).

Operating temperature

-40°C to +85°C.

-40°C to +100°C. Storage temperature

Certification

Approvals Approvals in compliance with all relevant EMC- and Automotive directives. This device complies with Part 15 of the FCC

Rules. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Certificates available upon request.

All materials are compliant to Green Passport requirements according IMO resolution MEPC.197(62) as adopted on 15 July **Green Passport** 2011 (Maritime sector: International Maritime Organization concerning the functions of the Marine Environment Protection

Committee).

Electrical connections

Front side of molded 4p male connector

1 = Coax core = Video signal 2 = Coax screen = Video GND 3 = Red= 12...24V/DC 4 = Black/orange = 0V

Shieldina To connector housing

All data subject to change without notice. All dimensions are for commercial purpose only.

The camera/display systems from Orlaco comply with the latest CE, ADR, EMC and mirror-directive regulations, where applicable. All products are manufactured in accordance with the ISO 9001 quality management system, IATF 16949 quality automotive, ISO 14001 environmental management systems and all Ex products with the IECEx scheme and ATEX directives, where applicable.



