

Camera FAMOS PAL

20°: Article no. 312218

40°: Article no. 312219

60°: Article no. 312221

80°: Article no. 312222

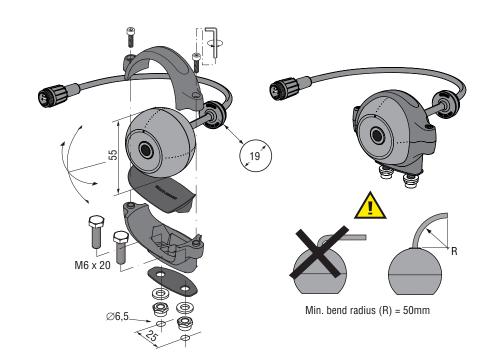
102°: Article no. 312223

118°: Article no. 312224 129°: Article no. 312225

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TECHNICAL DATA

Camera FAMOS 20°/129° PAL

Description

VTG/Orlaco Norge number	312218 FAMOS 20°	312219 FAMOS 40°	312221 FAMOS 60°	312222 FAMOS 80°	312223 FAMOS 102°	312224 FAMOS 118°	312225 FAMOS 129°
Lens specified	20°	40°	60°	80°	102°	118°	129°
Horizontal lens angle	20°	40°	60°	80°	102°	118°	129°
Vertical lens angle	15°	31°	44°	57°	73°	89°	97°

Sensor

Video signal PAL = 720(H)x576(V) 50fld/s. 1 Vtt composite video into 75 Ohm. 1/4"

Sensor element CMOS digital image sensor. 640 H x 480 V.

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

Electrical

Power input* 12...24V/DC.

> 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.

Power consumption Inrush current **Heater element**

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.

At 12V: 4.5A, 300us. At 24V: 12.0A, 300us.

2.4W max.

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

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). 50mm.

Min. cable bend radius

Mechanical

Housing

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

Ingress protection

IP68 according to IEC 60529; dust tight and protected against the effects of continuous immersion in water up to 10m under water 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

Standard stainless steel. 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 Weight

0,21kg, 0,29 in standard packing.

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 Storage temperature

-40°C to +85°C. -40°C to +125°C.

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.

Green Passport

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

Committee).



Electrical connections

Front side of molded 4p male connector

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

4 = Black/orange = 0V

Shielding 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, ISO/TS 16949 quality automotive, ISO 14001 environmental management systems and all Ex products with the IECEx scheme and ATEX directives, where applicable.



