

Product Data

Camera FAMOS PAL

20°: Article no. 0171060

40°: Article no. 0171050

60°: Article no. 0171040

80°: Article no. 0171030

102°: Article no. 0171020

118°: Article no. 0171010

129°: Article no. 0171000

Camera FAMOS NTSC

20°: Article no. 0171160

40°: Article no. 0171150

60°: Article no. 0171140

80°: Article no. 0171130

102°: Article no. 0171120

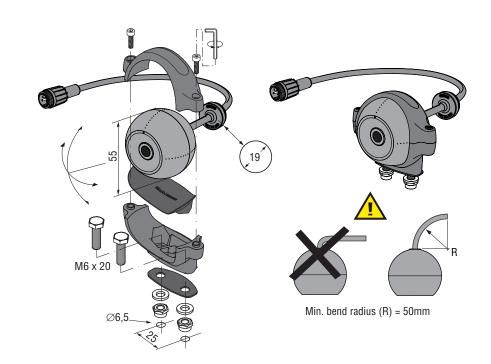
118°: Article no. 0171110

129°: Article no. 0171100

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Camera FAMOS 20°/129° PAL/NTSC

Lens specified 20° 40° 60° 80° 102° 118° 129°	Article number PAL Article number NTSC	0171060 0171050 0171160 0171150 FAMOS 20° FAMOS 40°	0171040 0171030 0171140 0171130 FAMOS 60° FAMOS 80	0171020 0171120 9° FAMOS 102°	0171010 0171110 FAMOS 118°	0171000 0171100 FAMOS 129°
Horizontal lens angle 20° 40° 60° 80° 102° 118° 129° Vertical lens angle 15° 31° 44° 57° 73° 89° 97°	Horizontal lens angle	20° 40° 20° 40°	60° 80°	102° 102°	118° 118°	129° 129°

Sensor

Video signal PAL = 720(H)x576(V) 50fld/s. NTSC = 720(H)x480(V) 60fld/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.</th>Dynamic Range80dB.

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.

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.

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

Min. cable bend radius

50mm.

Mechanical

Housing

Connectors

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.

Standard stainless steel.

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.

Camera bracket

Material: glass reinforced polyamide, test: 50 Nm at -40°C to +85°C.

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

-40°C to +85°C. -40°C to +125°C.

Storage temperature -4

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

1 = Coax core = Video signal 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.



