

Vision is
our mission®

Camera FAMOS 102° PAL Mirror
Article no. 0171220

Camera FAMOS 118° PAL Mirror
Article no. 0171210

Camera FAMOS 102° NTSC Mirror
Article no. 0171240

Camera FAMOS 118° NTSC Mirror
Article no. 0171230

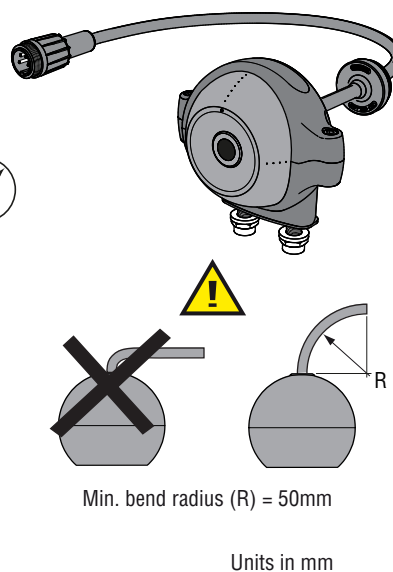
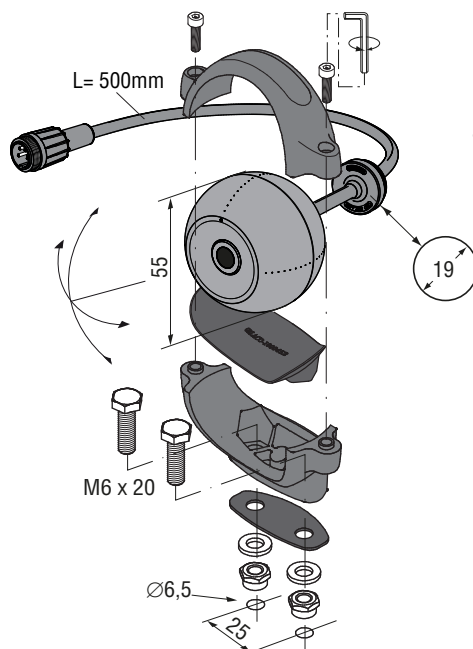
2017 • DS0961200 EN A 02

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Dimensions



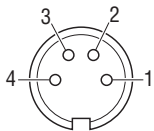
Min. bend radius (R) = 50mm

Units in mm

TECHNICAL DATA

Camera FAMOS 102°/118° PAL/NTSC Mirror

	Description			
Article number	0171220	0171210	0171240	0171230
	FAMOS 102° PAL Mirror	FAMOS 118° PAL Mirror	FAMOS 102° NTSC Mirror	FAMOS 118° NTSC Mirror
Lens specified	102°	118°	102°	118°
Horizontal lens angle	102°	118°	102°	118°
Vertical lens angle	73°	89°	73°	89°
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	¼" 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. <i>In all these above mentioned values; a tolerance of +/-10% is applied.</i>			
Power consumption	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.			
Inrush current	At 12V: 4.5A, 300us. At 24V: 12.0A, 300us.			
Heater element	2.4W max. Pulse width modulated, activated from +30°C (min) to -40°C.			
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				
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.			
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.			
Storage temperature	-40°C to +100°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

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.

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