Camera FAMOS 170° PAL Article no. 312400 Camera



Product Data







TECHNICAL DATA

Camera FAMOS 170° PAL

Article number PAL	Description 332400
	552400
	FAMOS 170°
Lens specified	170°
Horizontal lens angle	170°
Vertical lens angle	117°
	Sensor
Video signal	PAL = 720(H)x576(V) 50fld/s. 1 Vtt composite video into 75 Ohm. 1/4" CMOS digital image sensor.
Sensor element	640 H x 480 V. <0.05 Lux.
Light sensitivity Dynamic Range	<0,05 Lux. 80dB.
Dynamic Hange	
Dowor input	Electrical
Power input	1224V/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.
Power consumption	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.
Inrush current	0.5A at 12V and 1.0A at 24V (t < 2ms, peak (>90%) t = 0.3ms).
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	
Ususian	Mechanical Guaday (PO - ABC), Filling, Carears is notical with Dalwyrathans alectomer
Housing Ingress protection	Cycoloy (PC + ABS). Filling: Camera is potted with Polyurethane elastomer. IP67 according to IEC 60529; dust tight and protected against the effects of continuous immersion in water up to 1m
ingress protection	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
Camera bracket	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.
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
3,,2	1 = Coax core = Video signal
	2 = Coax screen = Video GND



1 = Coax core= Video signal2 = Coax screen= Video GND3 = Red= 12...24V/DC4 = Black/orange= 0VShieldingTo 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.



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