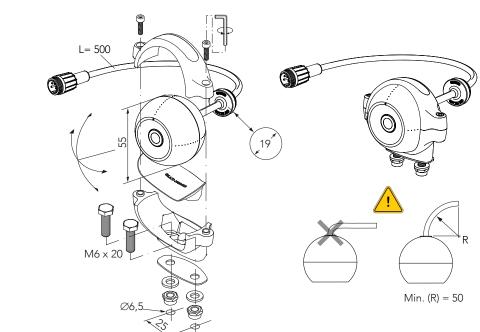
Camera FAMOS PAL

Camera FAMOS NTSC









DIMENSIONS Units in mm.

DOCUMENT & ARTICLE NO.

DS0961002ENA04

Article no. 01710XX for PAL and 01711XX for NTSC version. See article numbers backside.

Camera FAMOS 20°/129° PAL/NTSC

_						
-11	ΔC	c۲	ın	***	n	n
··	63	ы	ш	ш	u	ш

Article number PAL	0171061	0171051	0171041	0171031	0171021	0171011	0171001
Article number NTSC	0171161	0171151	0171141	0171131	0171121	0171111	0171101
	FAMOS 20°	FAMOS 40°	FAMOS 60°	FAMOS 80°	FAMOS 102°	FAMOS 118°	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. NTSC = 720(H)x480(V) 60fld/s. 1 Vtt composite video into 75 0hm.

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 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 50mm

Mechanical

Housing Ingress protection $\label{eq:cycoloy} \textit{Cycoloy (PC + ABS)}. \ \textit{Filling: Camera is potted with Polyurethane elastomer}.$

IP67 according to IEC 60529; dust tight and protected against the effects of continuous immersion in water up to 1m 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 Standard stainless steel.

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 (g^2/Hz) 0,04 to 0,10.

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

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

Truck useWithstand 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 +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

4 0 0 1

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

Shielding to connector housing



