



-power in control

DEIF A/S

Type Certificate

4124030080A / ref. SOJ

Type:	Multi-line 300 DU 300 – Display Unit
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Technical specifications

* Auxiliary supply:	Nominal: 12/24V DC (8... 36V DC) max. 12W consumption.
Cranking dropout:	Able to survive 0V for 50ms when dropping from at least 8V DC.
	Reverse polarity protected.
* Relay outputs:	30V DC / 1A resistive.
Voltage withstand:	±36V DC
* Galvanic separation:	Between power supply input and other I/O's: 600V, 50Hz, 60 s. Between relay groups and other I/O's : 600V, 50Hz, 60 s. Between EtherCAT ports and other I/O's: 600 V, 50 Hz for 60 s.
	Note: "Other I/O's" includes frame ground.

Type test specifications

Tested according to:

Temperature:	15... 30°C (Reference) -20... 70°C (operating) -30... 80°C (storage)	IEC 60068-2-1/2-2 IEC60255-1
Humidity:	97% RH Cyclic 93% RH Steady state	IEC 60068-2-30, test Db. IEC 60068-2-78 test Cab. IEC 60255-1
Change of temperature:	70°C ... -40°C 1°/minute	IEC 60255-1 IEC 60068-2-14, test Nb.
Operating altitude:	0-4000m	Refer to module specification for altitude de-rating above 2000m.
Vibration:	Operation: 3... 8Hz: 17mm _{pp} 8... 100Hz: 4g 100... 500Hz 2g Response: 10... 58.1Hz 0.15mm _{pp} 58.1... 150Hz 1g Endurance: 10... 150Hz 2g Seismic: 3... 8,15HZ 15mm _{pp} 8,15HZ... 35HZ 2g	IEC 60068-2-6 & IACS UR E10 IEC 60255-21-1 (Class 2) IEC 60255-21-1 (Class 2) IEC 60255-21-3 (Class 2)



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Type test specifications	Tested according to:	
Shock:	Base mounted: 10g, 11msec. half sine 30g, 11msec. half sine 50g, 11msec. half sine Tested with 3 impacts in each direction in all 3 axes. Total 18 impacts per test.	IEC 60255-21-2 Response (Class 2) IEC 60255-21-2 Endurance (Class 2) IEC 60068-2-27, test Ea.
Bump	20g, 16msec. half sine Tested with 1000 impacts in each direction in all 3 axes. Total 6000 impacts per test.	IEC 60255-21-2 (Class 2)
Safety:	Installation Cat.III 50V Pollution degree 2	EN/IEC 60255-27
Load dump:	1 pulse of 123V/1Ω/100ms 1 pulse of 174V/8Ω/350ms	ISO 7637-2 (pulse 5a)
EMC:		EN 61000-6-3 EN 61000-6-2 IEC/EN 60255-26 IEC 60533 power distr. zone IACS UR E10 power distr. zone
Flammability:	All plastic parts are self-extinguishing to UL94-V0	UL94 IEC/EN 60695-11-5 (Needle flame test)
Ingress protection:	Front: IP65 Back: IP20	IEC/EN 60529

*) Routine tested on all units according to specifications.
Remaining specifications are tested regularly by test sampling.

20th May 2015

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Søren Madsen

R&D Product Approval Manager