



-power in control

DEIF A/S

Type Certificate

4124040027A / ref. JST

Type:	XDi96, XDi144, XDi192 Flexible Display indicators Extension modules AX1, DX1
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Technical specifications	
Accuracy:	Analogue scale: < +/-0.5% of full scale @ scale length >200 pixels Digital readout: < +/-1 of least significant digit (rounding of input data is used)
Displayed scale design:	According to MED and customer design
* Aux. supply:	24 V (18.0...31.2V DC) XDi96 < 3W XDi144 < 4W XDi192 < 6W Power consumption is without modules connected, and backlight at 100%
* CAN interface:	1 st CAN interface with primary power connection 2 nd CAN interface with primary power connection Single CAN: XDi-Net based on CANopen Dual CAN: 1) Redundant XDi-Net 2) Two independent XDi-Net Customized CANopen protocols can be implemented in custom library
Housing, front size:	XDi96: 102x102 mm XDi144: 148x102 mm XDi192: 196x148 mm
Galvanic separation	500 V between Aux1/Aux2, CAN1 and CAN2

* Analog inputs (AX1):	Two analogue differential inputs and one single-ended analogue input Max. Range: -20...0...20 mA/-30...0...30 V
* Accuracy:	Class 0.5 <+/- 0.5% @ 15 to 30°C <+/- 1.0% @ -10 to +55°C
Galvanic separation	500 V between all analog inputs and XDi main unit

* Digital inputs (DX1):	Two general purpose digital inputs Max. input voltage: +/- 32V DC
Digital outputs (DX1):	Two independent relays, 3 contact terminals/change-over contact -Switching voltage < 60VDC -Switching power < 30W DC resistive load. -Switching current: 1mA to 1A
Galvanic separation	500 V between Din1, Din2, Dout1, Dout2 and XDi main unit



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Type test specifications		Tested according to:
Temperature:	-25....70°C (operating) -40....70°C (storage)	IEC 60068-2-1 IEC 60068-2-2
Accuracy:	Class 0.5	IEC 60688
Climate:	97% RH	IEC 60068-2-30, test Db
Vibration:	3...13.2 Hz: 2 mm (peak-peak) 13.2... 100 Hz: 0.7 g	EN 60945 DNV: Class A
Shock:	6 attempts with 50 g half sine 11ms (in 3 directions)	IEC 600068-2-27
Safety:	Test Voltage 600 V – 50 Hz – 1 min. between following groups: CAN: Aux. Supply; CAN 1;CAN 2 Analogue: Aux. Supply; analogue inputs; dimmer 300V – CAT. III. Pollution deg. 2	EN 61010-1, IACS UR E-10
EMC:	Emission and immunity tested for residential, commercial and light industry plus industrial environment	EN 61000-6-1/2/3/4 EN/IEC 60945
Compass safety distance	Steering compass: 0.10m Stand-by/emergency compass: 0.10m	EN/IEC 60945
Materials:	All plastic parts are self-extinguishing to UL94 (V0)	
Protection:	Unit: IP20 Front: IP52 (IP66 with optional gasket)	IEC/EN 60529
Mounting angle	Any angle between 0...360° horizontal	DIN 16257

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

10th October 2013

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Keld Roed

Type Approval Manager