

Types:	DLQA96, DLQA144 – Illuminated 360° Azimuth Indicators
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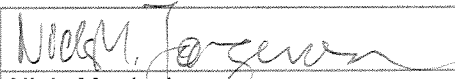

Technical specifications

* Accuracy:	Class 0.5 (-10...15...30...55 °C) according to EN 60051
* Measuring ranges:	-10...0...10 VDC (load: 10 kΩ) 0...1 mADC (load: 1.0 V) 4...20 mADC (load: 1.0 V)
Response time:	Max. pointer movement speed is 90° per second, no overshoot.
* Supply voltage, nominal:	24 VDC.
Supply voltage range:	U _{NOM} +30%/-25% (18...31.2 VDC)
* Illumination input:	12 mADC @ 24 VDC
Temperature drift:	Max. 0.5% of full scale in the range of -10...55 °C.
Compass safe distance:	To be mounted at least 1 m from compass.

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

Type test specifications *Tested according to:*

Insulation	>100 MΩ, tested at 500 VDC	EN/IEC 60945 and IACS UR E10
Vibration:	3...13.2Hz: 3 mm 13.2-100Hz: 1.0 g	EN 60945 and IACS UR E10
Shock:	6 impacts of 50 g, 11 ms half-sine Tested in each direction in all 3 axes	IEC 68-2-27, test: Ea
Climate:	Class HUE	DIN 40040
Protection:	Enclosure & front: IP52 Front w/ optional gasket: IP54 Terminals: IP20	EN/ IEC 60529
Temperature:	-10...55 °C (nominal) -25...60 °C (operating) -25...65 °C (storage)	IACS UR E10
Galvanic separation:	500 VAC between all groups. 500 VAC from all groups to earth.	EN 61010-1. Tested at 50 Hz, 1 min. Each circuit tested to other circuits and to protective earth.
Materials:	All plastic parts are self-extinguishing to UL94 (V1)	
EMC:	Immunity	EN/IEC 60945, EN 61000-1-1/2
	Emission	EN/IEC 60945. EN 61000-1-3/4. IACS UR E10 bridge zone.

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