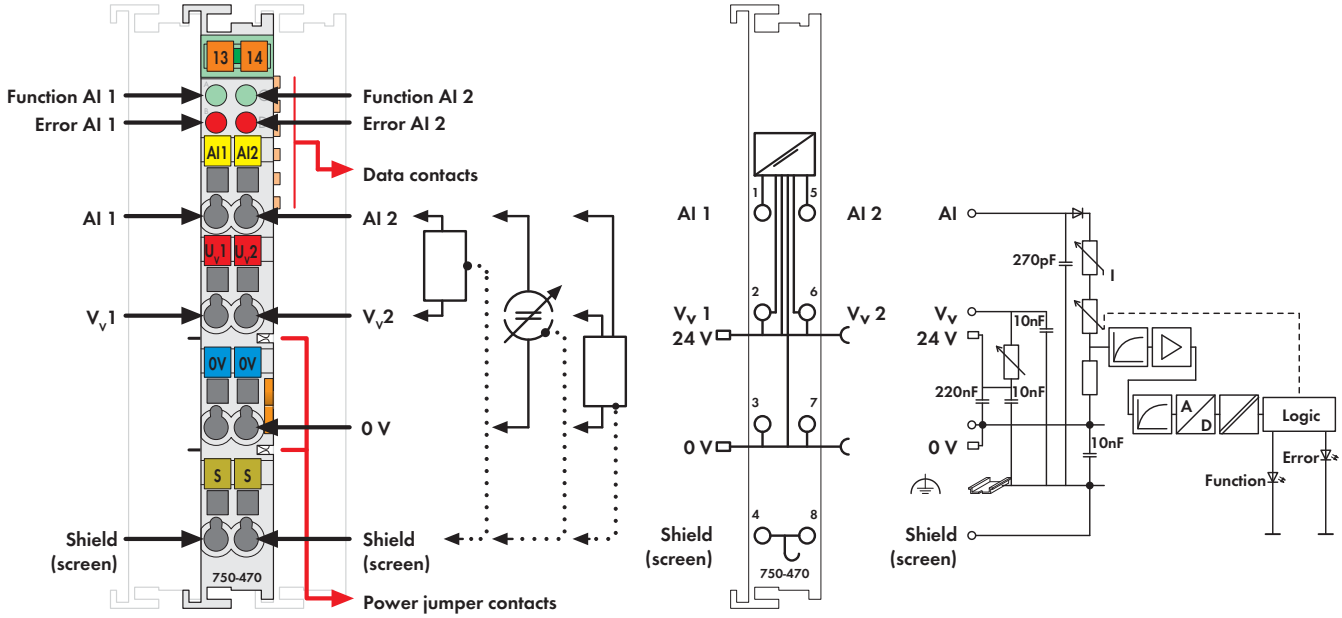
2-Channel Analog Input Module 0/4-20 mA

single-ended (S.E.), short-circuit protected



Delivery without Mini WSB marker

The analog input module receives signals with the standardized values 0-20 mA. The output signal is electrically isolated and will transmit with a 12-bit resolution. The 24 V supply for the field is derived from the power jumper contacts. The shield (screen) is directly connected to the DIN rail. This module can supply the voltage for 2-conductor transducers.
A short-circuit to the power supply is indicated as error/fieldbus failure and a message is sent to the supervisory control.

Description	Item no.	Pack. unit
2AI 0-20mA, S.-E., S. C. Protec.	**750-470**	1
2AI 0-20mA, S.-E., S. C. Protec., 60 Hz	**750-470/005-000**	1
2AI 4-20mA, S.-E., S.C.Protec.	**750-473**	1
2AI 4-20mA, S.-E., S. C. Protec., 60 Hz	**750-473/005-000**	1

Accessories		Item no.	Pack. unit
Miniature WSB quick marking system,			
	plain	**248-501**	5
	with marking	see pages 256 ... 257	

Approvals

Series 750	
Conformity marking	CE
UL 508	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4
EN 60079-15	I M2 / II 3 GD Ex nA IIC T4
Marine applications	see "Approvals Overview" in section 1

Technical Data

No. of inputs	2
Voltage supply	via system voltage DC/DC
Current consumption typ. (internal)	100 mA
Signal current	0 mA ... 20 mA (750-470)
	4 mA ... 20 mA (750-473)
Input voltage	non-linear, overload protected
	V = 1.2 V + 100 Ω x I mess
Input resistance (typ.)	< 160 Ω / 20 mA
Resolution	12 bits
Conversion time (typ.)	80 ms
Measuring error (25 °C)	< ± 0.1 % of the full scale value
Temperature coefficient	< ± 0.01 % / K of the full scale value
Isolation	500 V field/system
Bit width	2 x 16 bits data
	2 x 8 bits control/status (optional)
Input filter	50 Hz (750-470, 750-473)
	60 Hz (750-470/005-000, 750-473/005-000)
Noise rejection at sampling frequency	< -100 dB
Noise rejection above sampling frequency	< -40 dB
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Stripped lengths	8 ... 9 mm / 0.33 in
Width	12 mm
Weight	55.5 g
EMC marine applications - Immunity to interference	acc. to Germanischer Lloyd (2003)
EMC marine applications - Emission of interference	acc. to Germanischer Lloyd (2003)

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