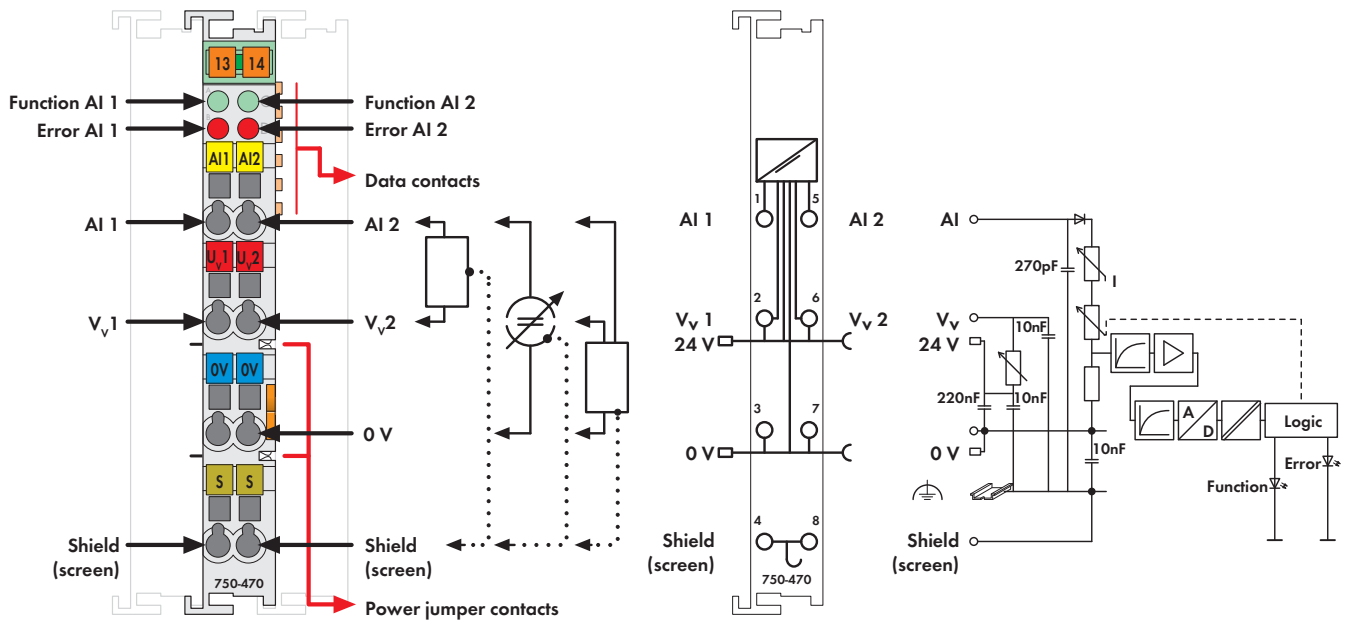



## 2-Channel Analog Input Module 0/4-20 mA

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
<b>Accessories</b>		
<b>Miniature WSB quick marking system,</b>		
 plain	248-501	5
with marking	see pages 256 ... 257	
<b>Approvals</b>		
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 $V = 1.2 V + 100 \Omega \times I_{mess}$
Input resistance (typ.)	< 160 $\Omega$ / 20 mA
Resolution	12 bits
Conversion time (typ.)	80 ms
Measuring error (25 °C)	< $\pm 0.1$ % of the full scale value
Temperature coefficient	< $\pm 0.01$ % / 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 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 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)