

2-Channel Analog Input Module 0/4-20 mA
single-ended (S.E.)

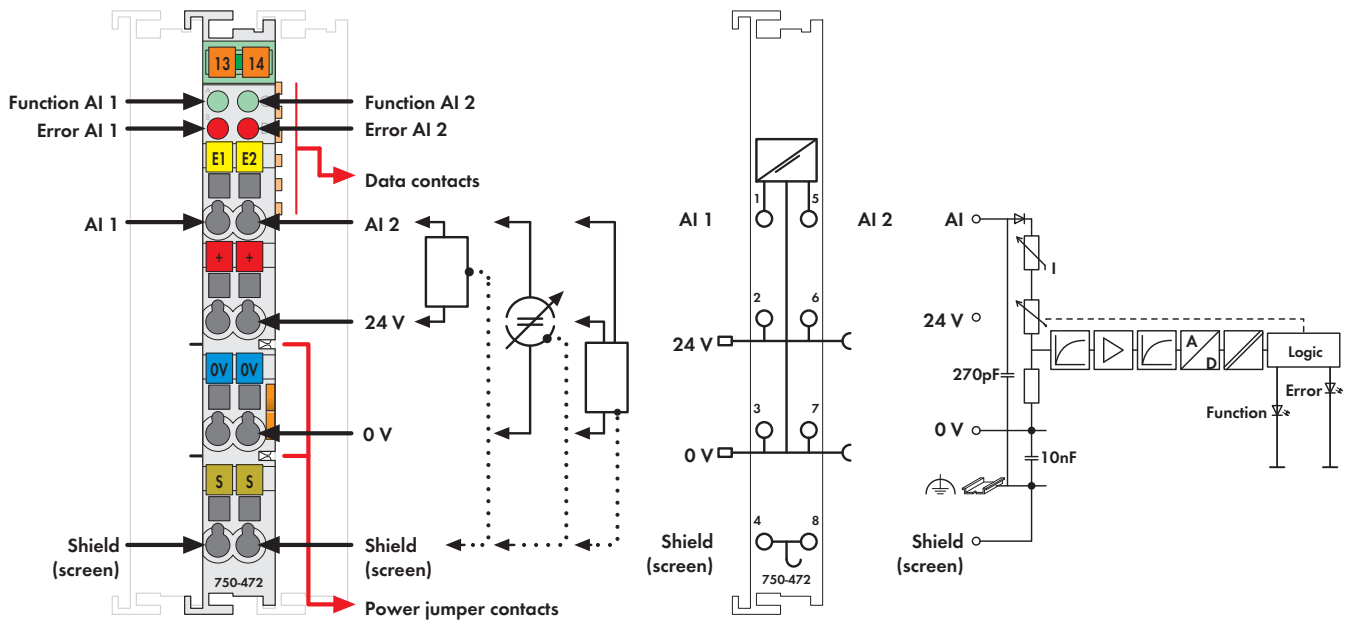


Fig. Series 750 / Technical data see page 28 / Delivery without Mini WSB marker
Series 750 / 753 marking see pages 16 ... 17 / 18 ... 19

The analog input module is able to provide power to the field device, to receive the transmitted analog signals, and with electrical isolation, to transmit them to the fieldbus.

This input module can supply the voltage for 2-conductor transducers.

The 24 V supply for the field is derived from the power jumper contacts.

The shield (screen) is directly connected to the DIN rail.

At approx. 25 mA the overload protection switches the measurement input to a high resistance state. Under normal operating conditions it is automatically switched back.

Description	Item no.	Pack. unit
2AI 0-20mA 16 Bit S.E.	750-472	1
2AI 4-20mA 16 Bit S.E.	750-474	1
2AI 0-20mA 16Bit S.E. S5 ²⁾	750-472/000-200	1
2AI 0-20mA 16Bit S.E. 60Hz	750-472/005-000	1
2AI 4-20mA 16Bit S.E. S5 ²⁾	750-474/000-200	1
2AI 4-20mA 16Bit S.E. 60Hz	750-474/005-000	1
2AI 0-20mA 16Bit, S.E. (without connector)	753-472	1
2AI 4-20mA 16Bit, S.E. (without connector)	753-474	1
²⁾ Data format for S5 control with FB 251		
Accessories	Item no.	Pack. unit
753 Series connector	753-110	25
Coding elements	753-150	100
Miniature WSB quick marking system,		
plain	248-501	5
with marking	see pages 256 ... 257	
Approvals		
Series 750 and 753		
Conformity marking	CE	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
Series 750		
EN 60079-15	I M2 / II 3 GD Ex nA IIC T4	
Marine applications	BR-Ex nA II T4	
	see "Approvals Overview" in section 1	

Technical Data	
No. of inputs	2
Voltage supply	via system voltage DC/DC
Current consumption (internal)	75 mA
Input voltage (max.)	24 V
Input voltage	non-linear, overload protected
Signal current	0 mA ... 20 mA (750-472, 753-472) 4 mA ... 20 mA (750-474, 753-474)
Input resistance	220 Ω / 20 mA
Overvoltage protection	30 V polarity reversal protection
Resolution	15 bits
Conversion time (typ.)	80 ms
Input filter	50 Hz
Noise rejection at sampling frequency	< -100 dB
Noise rejection above sampling frequency	< -40 dB
Measuring error (25 °C)	< ± 0.1 % of the full scale value
Temperature coefficient	< ± 0.01 % / K of the full scale value
Isolation	500 V system/supply
Bit width	2 x 16 bits data 2 x 8 bits control/status (optional)
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Stripped lengths (750 / 753 Series)	8 ... 9 mm / 0.33 in 9 ... 10 mm / 0.37 in
Width	12 mm
Weight	55.5 g
EMC CE-Immunity to interference	acc. to EN 50082-2 (1996)
EMC CE-Emission of interference	acc. to EN 50081-1 (1993)
EMC marine app. - Immunity to interference	acc. to Germanischer Lloyd (2003)
EMC marine app. - Emission of interference	acc. to Germanischer Lloyd (2003)