

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

differential inputs

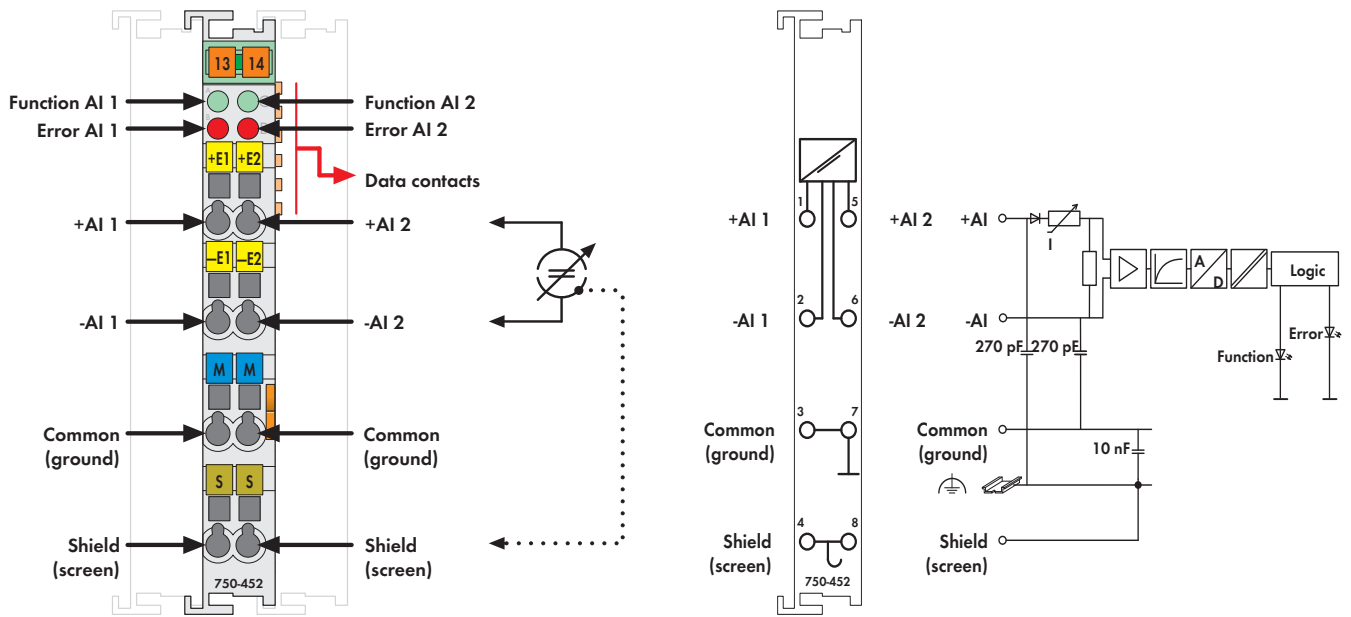


Fig. Series 750 / Technical data see page 28 / Delivery without Mini WSB marker
Series 750 / 753 marking see pages 16 ... 17 / 18 ... 19

The analog input module receives signals with standardized values of 0-20 mA and 4-20 mA.

The input signal is electrically isolated and will be transmitted with a resolution of 12 bits.

The internal system supply (via the data bus contacts) is used for the power supply of the module.

The input channels are differential inputs.

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

Description	Item no.	Pack. unit
2AI 0-20mA Diff.	750-452	10 ¹⁾
2AI 4-20mA Diff.	750-454	10 ¹⁾
2AI 0-20mA Diff./S5 ²⁾	750-452/000-200	1
2AI 4-20mA Diff./S5 ²⁾	750-454/000-200	1
2AI 4-20mA Diff./T	750-454/025-000	1
[Operating temperature -20 °C ... +60 °C]		
2AI 0-20mA Diff. (without connector)	753-452	10 ¹⁾
2AI 4-20mA Diff. (without connector)	753-454	10 ¹⁾
¹⁾ Also available individually		
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	see "Approvals Overview" in section 1	

Technical Data	
No. of inputs	2
Voltage supply	via system voltage DC/DC
Current consumption typ. (internal)	70 mA
Common mode voltage (max.)	DC 35 V
Signal current	0 mA ... 20 mA (750-452, 753-452) 4 mA ... 20 mA (750-454, 753-454)
Input resistance	< 220 Ω / 20 mA
Resolution	12 bits
Conversion time (typ.)	2 ms
Measuring error (25 °C)	< ± 0.2 % 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 mm ² ... 2.5 mm ² / AWG 28 ... 14
Stripped lengths (750 / 753 Series)	8 ... 9 mm / 0.33 in 9 ... 10 mm / 0.37 in
Width	12 mm
Weight	51 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 applications -	
Immunity to interference	acc. to Germanischer Lloyd (2003)
EMC marine applications -	
Emission of interference	acc. to Germanischer Lloyd (2003)