

2-Channel Analog Input Module AC/DC 0-10 V

differential inputs

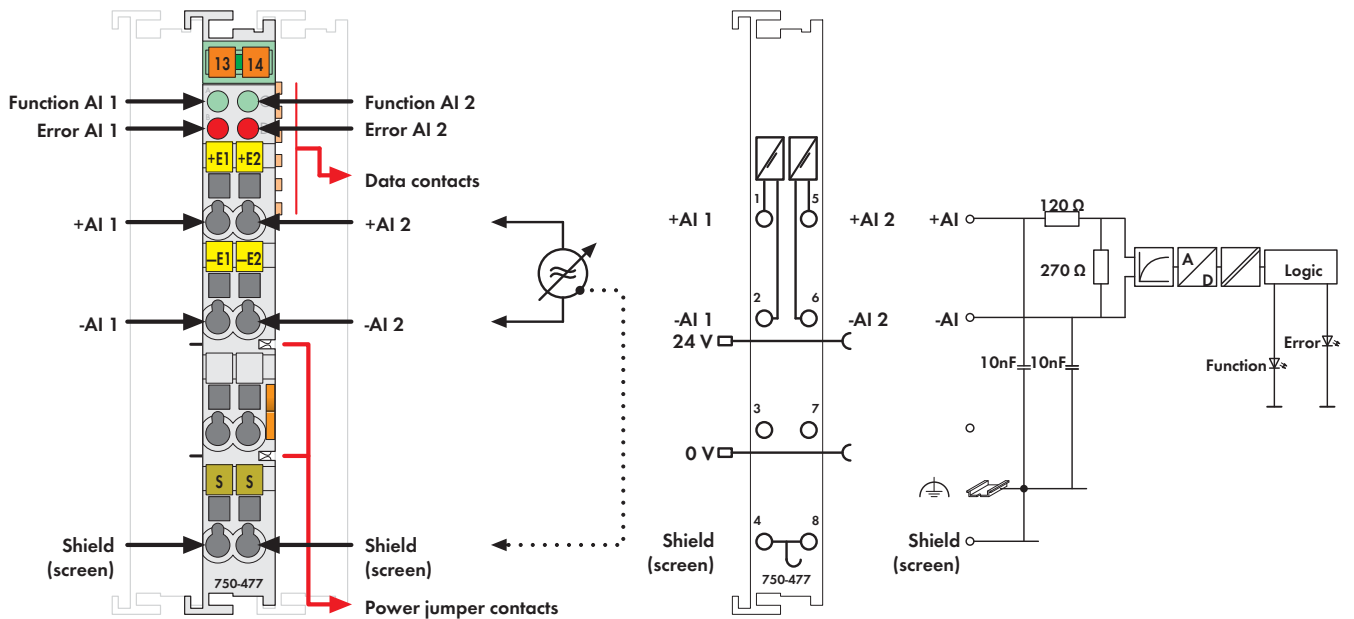


Fig. Series 750 / Technical data see page 28 / Delivery without Mini WSB marker
Series 750 / 753 marking see pages 16 ... 17 / 18 ... 19

- The analog input module receives AC and DC voltages of values 0-10 V eff.
- The module measures the rms value of the voltage and displays it with a resolution of 1 mV.
- The maximum voltage must not exceed 20 V.
- The differential inputs are electrically isolated.
- The fieldside and internal system are electrically isolated.

- The 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 0-10V AC/DC Differential Input	750-477	1
2AI 0-10V AC/DC Diff. (without connector)	753-477	1
Accessories		
753 Series connector	753-110	25
Coding elements	753-150	100
Miniature WSB quick marking system, plain	248-501	5
Miniature WSB quick marking system, 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	

Technical Data	
No. of inputs	2
Voltage supply	via system voltage DC/DC
Current consumption (internal)	80 mA
Signal voltage	0 V ... 10 V eff. (peak value 20 V)
Internal resistance	120 kΩ
Resolution	16 bits internal (1 LSB = 1 mV)
Conversion time	200 ms
Measuring error (25 °C)	< ± 0.1 % of the full scale value
Temperature coefficient	< ± 110 ppm / K of the full scale value
Error in complete temperature range	≤ ± 0.6 % of the full scale value
Voltage resistance	DC 500 V channel/channel or channel/system
Voltage via power jumper contacts	DC 24 V
Bit width	2 x 16 bits data
	2 x 8 bits control/status (optional)
Process data	0.0 V is 0x0000; 20 V DC is 0x4E20
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	47 g
EMC CE-Immunity to interference	acc. to EN 50082-2 (1996)
EMC CE-Emission of interference	acc. to EN 50081-1 (1993)