

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

Differential inputs

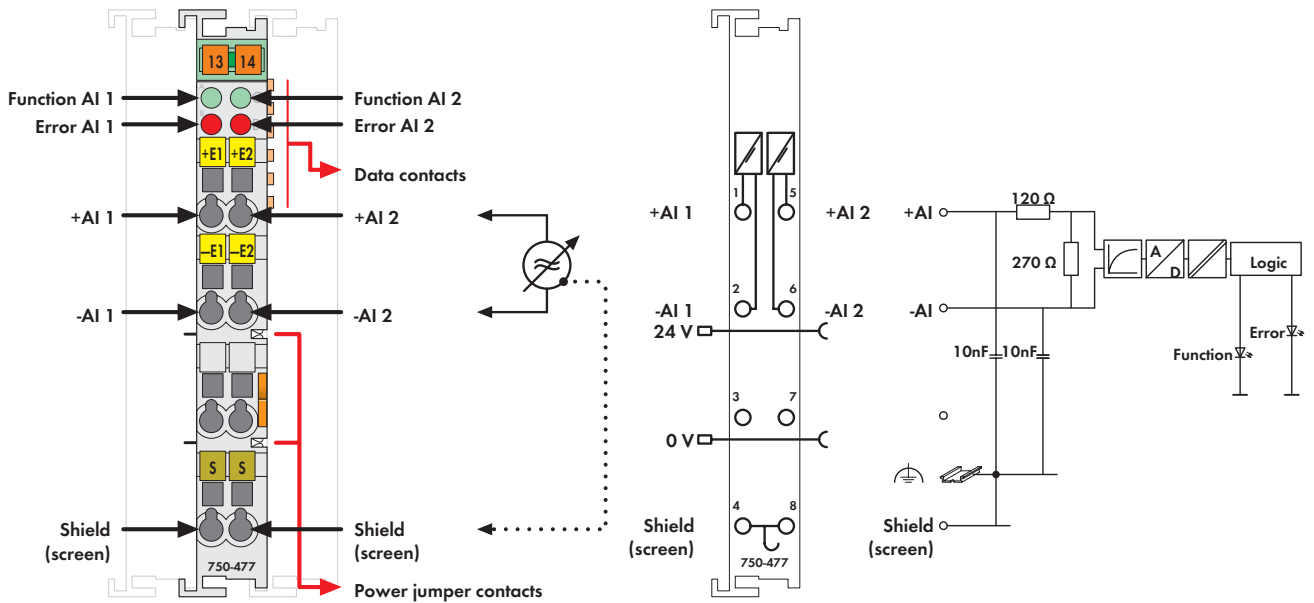



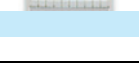


Fig. 750 Series/Technical data see page 24/Delivered without miniature WSB markers
750/753 Series marking see pages 10 ... 11 / 12 ... 13

The analog input module processes AC and DC voltage within a range of 0 to 10V (rms).

The module measures the rms value of the voltage and displays it with a resolution of 1 mV.

- The maximum voltage must not exceed 20V.
- The differential inputs are electrically isolated.
- The fieldside and internal system are electrically isolated.
- System voltage is used for voltage supply.
- The input channels are differential inputs.
- The shield (screen) is connected directly 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 Connectors	753-110	25
 Coding elements	753-150	100
Miniature WSB Quick marking system		
 plain	248-501	5
 with marking	see pages 352 ... 353	
Approvals		
Conformity marking	Also see "Approvals Overview" in Section 1	
CE	CE	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
EN 60079-0, -15	I M2 / II 3 GD Ex nA IIC T4	
EN 61241-0, -1		

Technical Data	
Number of inputs	2
Power 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
Dielectric strength	500 V DC channel/channel or channel/system
Voltage via power jumper contacts	24 V DC
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 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	47 g
EMC: CE - immunity to interference	acc. to EN 61000-6-2 (2005)
EMC: CE - emission of interference	acc. to EN 61000-6-4 (2007)