

2-Channel Analog Input Module AC/DC 0-1 A

differential inputs

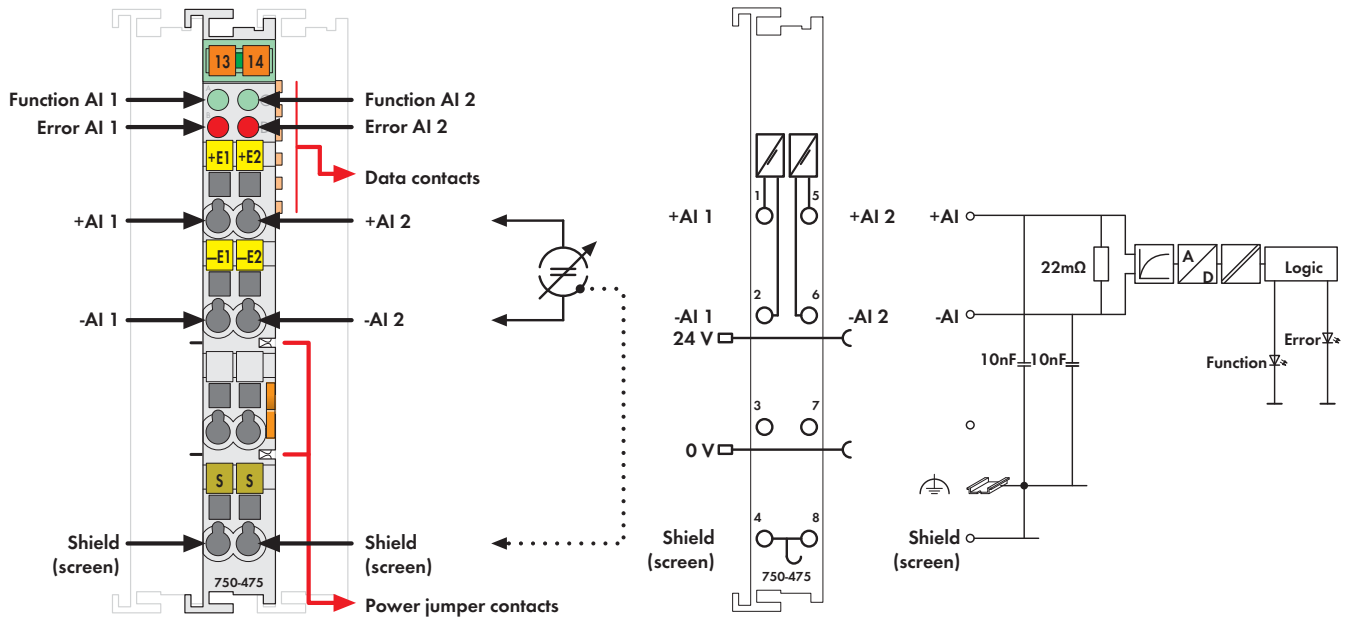


Fig. Series 750 / Technical data see page 28 / Delivery without Mini WSB marker
Series 750 / 753 marking see pages 16 ... 17 / 18 ... 19

The analog input module receives AC and DC currents of values 0-1 A eff.

The module measures the rms value of the current and displays it with a resolution of 100 µA.

The maximum current must not exceed 2 A.







The differential inputs are electrically isolated.



The fieldside and internal system are electrically isolated.

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 0-1A AC/DC Differential Input	750-475	1
2AI 0-1A AC/DC Differential Input (without connector)	753-475	1
Accessories		
 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 BR-Ex nA II T4	

Technical Data	
No. of inputs	2
Voltage supply	via system voltage DC/DC
Current consumption (internal)	80 mA
Signal current	0 A ... 1 A eff. (peak value 2.0 A)
Load impedance	22 mΩ
Resolution	16 bits internal (1 LSB = 100 µA)
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 A is 0x0000; 2.0 A 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  Immunity to interference	acc. to EN 50082-2 (1996)
EMC  Emission of interference	acc. to EN 50081-1 (1993)