

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

Differential inputs

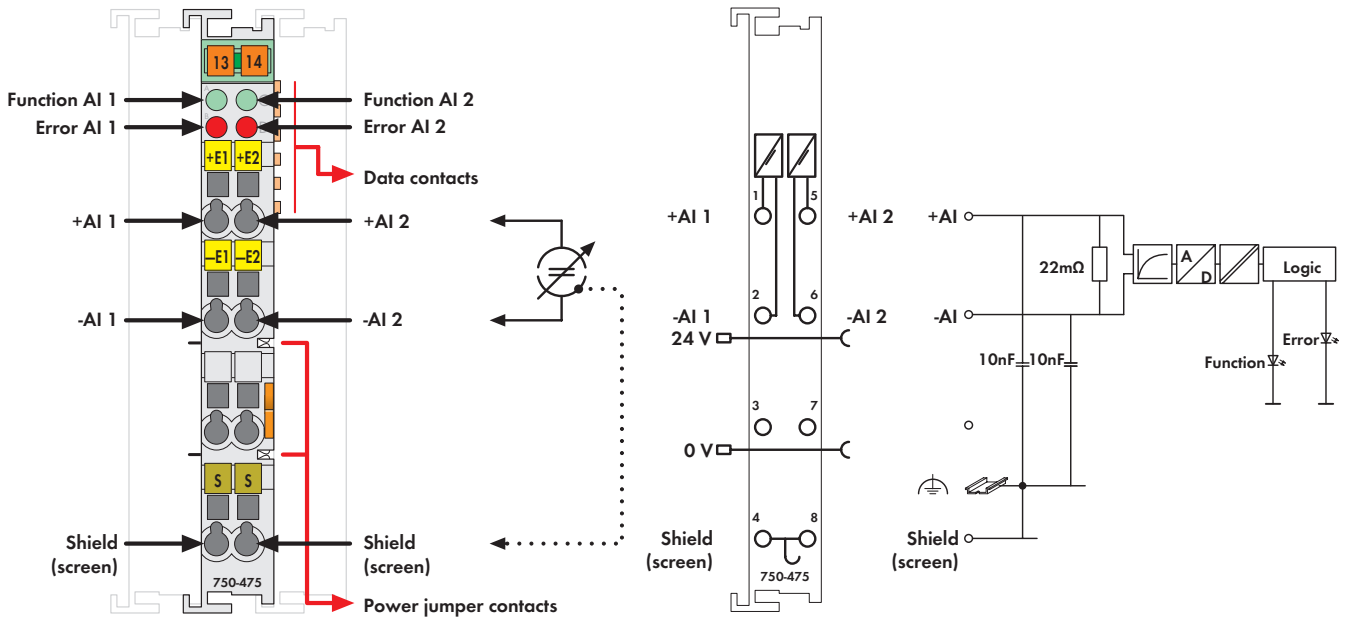


Fig. 750 Series/Technical data see page 24/Delivered without miniature WSB markers
750/753 Series marking see pages 12 ... 13 / 14 ... 15

The analog input module receives AC and DC currents of values 0-1A eff.
The module measures the rms value of the current and displays it with a resolution of 100µA.
The maximum current must not exceed 2A.
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.

Technical data for the 750-475/020-000 model:
Signal current: 0A ... 6A eff
Process data: 0.0 A is 0x0000; 6.0 A is 0x7FFF

Description	Item No.	Pack. Unit
2AI 0-1A AC/DC Differential Input	750-475	1
2AI 0-5A AC/DC Differential Input	750-475/020-000	1
Differing technical data see text		
2AI 0-1A AC/DC Differential Input (without connector)	753-475	1
Accessories	Item No.	Pack. Unit
753 Series Connectors	753-110	25
Coding elements	753-150	100
Miniature WSB Quick marking system		
plain	248-501	5
with marking	see pages 304 ... 305	
Approvals		
750 and 753 Series		
Conformity marking	CE	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
750 Series		
EN 60079-15	I M2 / II 3 GD Ex nA IIC T4 BR-Ex nA II T4	

Technical Data	
Number of inputs	2
Voltage supply	via system voltage DC/DC
Current consumption (internal)	80 mA
Input voltage (max.)	24 V AC/DC (-20 % ... +20 %)
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
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 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 CE-Immunity to interference	acc. to EN 61000-6-2 (2005)
EMC CE-Emission of interference	acc. to EN 50081-1 (1993)