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

Differential inputs

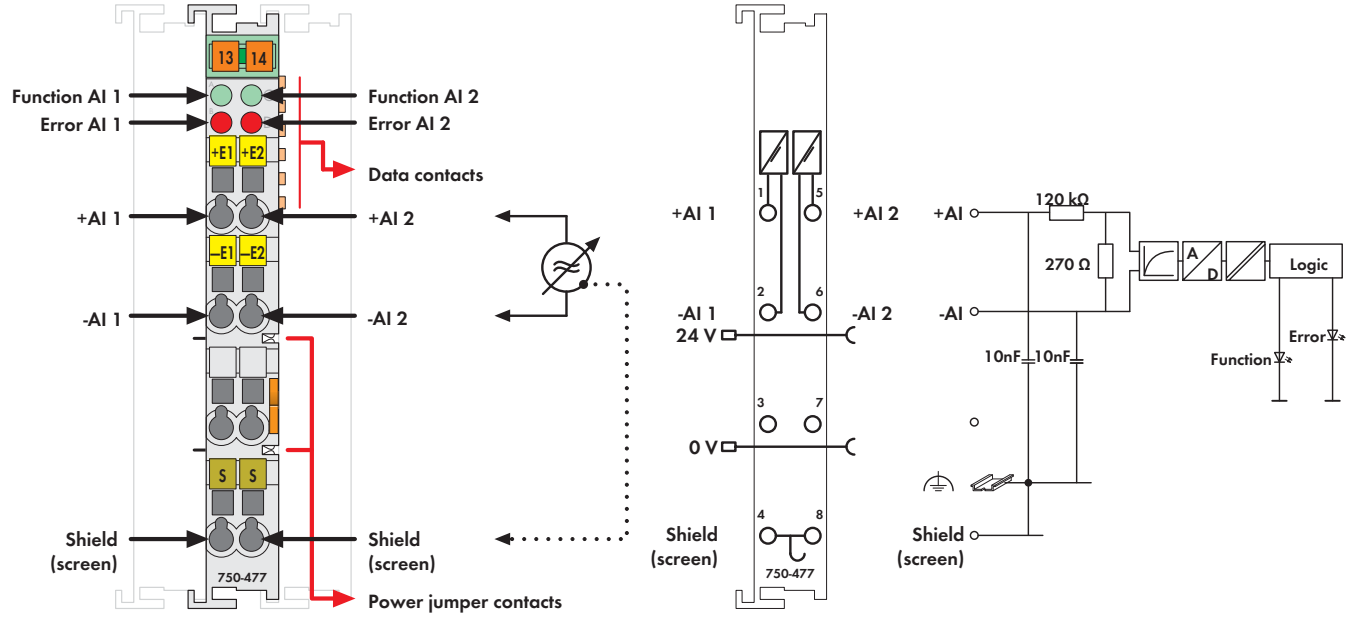

Fig. 750 Series
Delivered without miniature WSB markers

The analog input module receives AC and DC voltages of values 0-10V eff.

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

The maximum voltage must not exceed 20V.

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		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 Section 11	

Approvals

Conformity marking	CE
Korea Certification	
UL 508	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4
TÜV 07 ATEX 554086 X	I M2 Ex d I Mb, II 3 G Ex nA IIC T4 Gc, II 3 D Ex tc IIIC T135°C Dc
IECEx TUN 09.0001 X	Ex d I Mb, Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc

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
Strip lengths, 750/753 Series	8 ... 9 mm / 0.33 in
	9 ... 10 mm / 0.37 in
Width	12 mm
Weight	50.3 g
EMC immunity of interference	acc. to EN 61000-6-2
EMC emission of interference	acc. to EN 61000-6-4