4-Channel Analog Input Module ±10 V/0-10 V

Single-ended (S.E.)

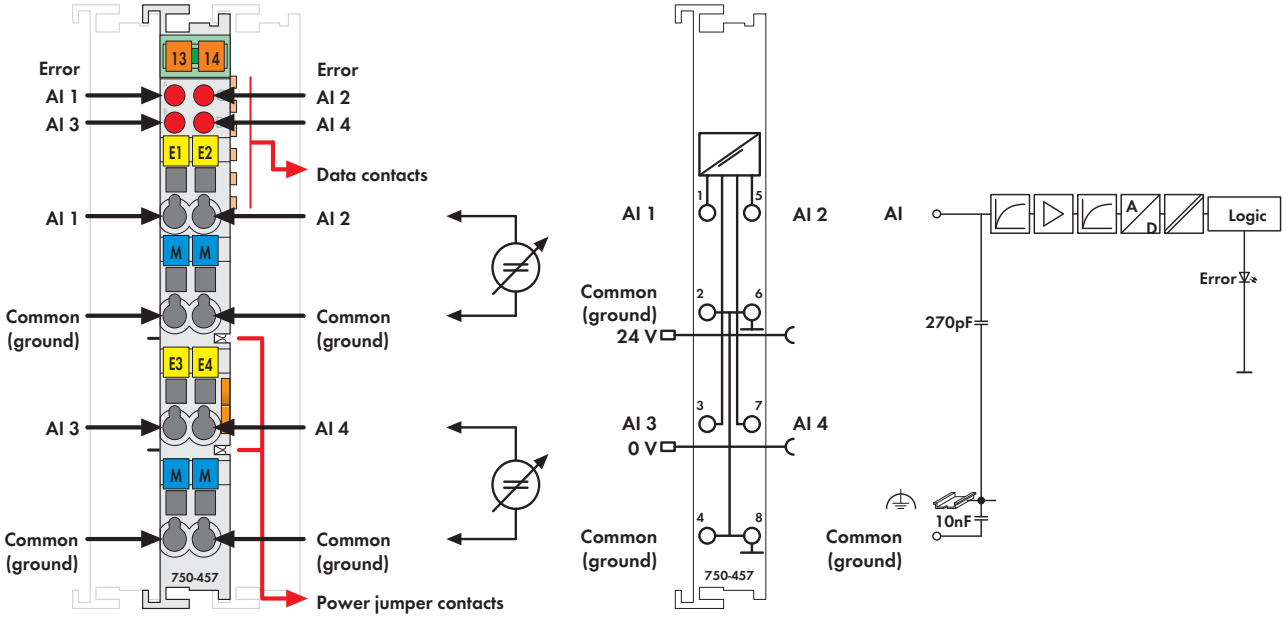

Fig. 750 Series
Delivered without miniature WSB markers

The analog input module receives signals with the standardized values ±10V and 0-10V.

The input signal is electrically isolated and will be transmitted with a resolution of 12 bits.

The internal system supply is used for the power supply of the module.

The input channels of a module have one common ground potential.

Description	Item No.	Pack. Unit
4AI ±10V DC S.E.	**750-457**	1
4AI 0-10V DC S.E.	**750-459**	1
4AI ±10V DC S.E./T	**750-457/025-000**	1
Extended temperature range: -20 °C ... +60 °C		
4AI ±10V DC S.E. (without connector)	**753-457**	1
4AI 0-10V DC S.E. (without connector)	**753-459**	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	
Marine applications (versions upon request)	ABS, BV, DNV, GL, KR, LR, NKK, PRS, RINA
cULus UL 508	
cULus 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	4
Power supply	via system voltage DC/DC
Current consumption (internal)	65 mA
Input voltage (max.)	± 40V
Signal voltage	± 10 V (750-457 / 753-457)
	0 V ... 10 V (750-459 / 753-459)
Input resistance	> 100kΩ
Resolution	12 bits
Conversion time (typ.)	10 ms
Measuring error (25 °C)	< ± 0.2 % of the full scale value
Temperature coefficient	< ± 0.01 % / K of the full scale value
Isolation	500 V system/supply
Bit width	4 x 16 bits data
	4 x 8 bits control/status (optional)
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	51 g
EMC immunity of interference	acc. to EN 61000-6-2, marine applications
EMC emission of interference	acc. to EN 61000-6-4, marine applications