

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

Single-ended (S.E.)

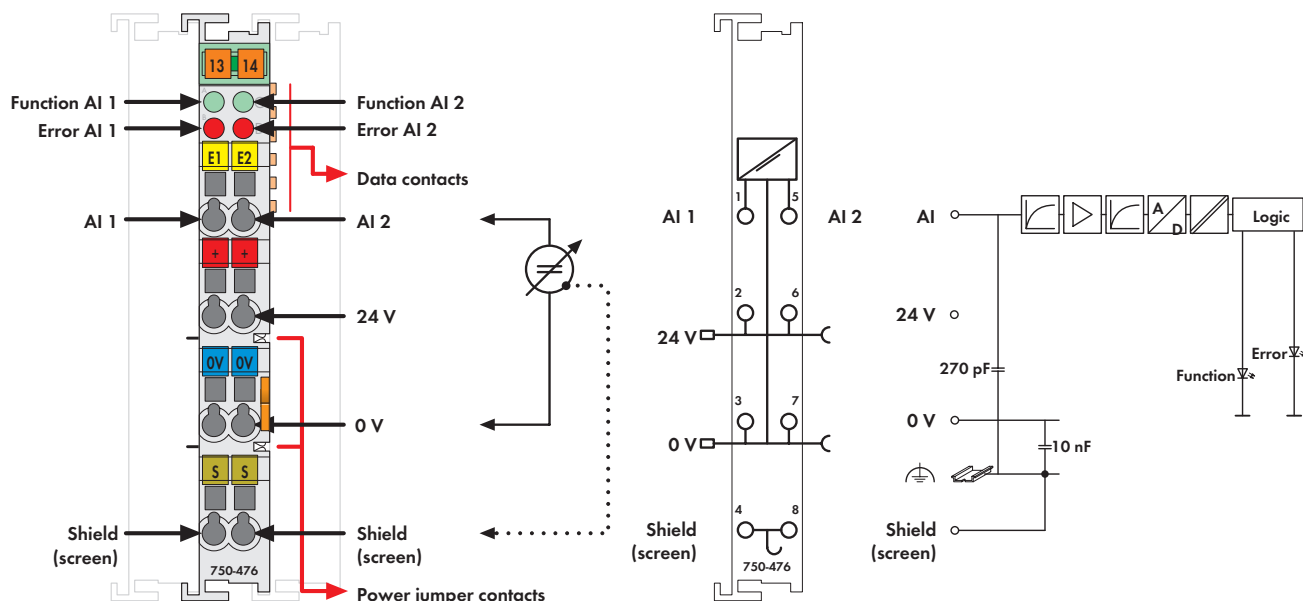


Fig. 750 Series/Technical data see page 24/Delivered without miniature WSB markers
750/753 Series marking see pages 10 ... 11 / 12 ... 13

The analog input module processes signals of a standard magnitude ± 10 V.

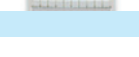
The input signal is electrically isolated and is transmitted with a resolution of 16 bits.

The internal system supply powers the module.

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

The 24V supply is derived from the power jumper contacts.

The shield (screen) is directly connected to the DIN rail.

Description	Item No.	Pack. Unit
2AI ± 10 V DC 16 Bit S.E.	750-476	1
2AI ± 10 V DC 16 Bit S.E. 60Hz S5-466	750-476/000-200	1
2AI ± 10 V DC 16 Bit S.E. 60Hz	750-476/005-000	1
2AI 0-10V DC 16 Bit S.E.	750-478	1
2AI 0-10V DC 16 Bit S.E. 60Hz	750-478/005-000	1
2AI ± 10 V DC 16 Bit S.E. (without connector)	753-476	1
2AI 0-10V DC 16 Bit S.E. (without connector)	753-478	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 352 ... 353	
Approvals	Also see "Approvals Overview" in Section 1	
Conformity marking	CE	
Shipbuilding (versions upon request)	ABS, BV, DNV, GL, KR, LR*, NKK*, PRS*, RINA*	
UL 508	*753 Series, pending	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
IEC 60079-0, -15	BR-Ex nA II T4	750-476, -478
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)	75 mA
Input voltage (max.)	24V
Signal voltage	± 10 V (750-476, 753-476) 0 - 10V (750-478, 753-478)
Internal resistance	130 k Ω
Resolution	15 bits + sign bit
Conversion time (typ.)	80 ms
Input filter	50Hz
Noise rejection at sampling frequency	< -100 dB
Noise rejection above sampling frequency	< -40 dB
Measuring error (25°C)	$\leq \pm 0.1$ % of the full scale value
Temperature coefficient	$< \pm 0.01$ % / K of the full scale value
Isolation	500 V system/supply
Bit width	2 x 16 bits data 2 x 8 bits control/status (optional)
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 14
Stripped lengths, 750/753 Series	8 ... 9 mm / 0.33 in 9 ... 10 mm / 0.37 in
Width	12 mm
Weight	54.5 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)
EMC: marine applications	
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