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4-Channel Analog Input Module 0/4-20 mA

single-ended (S.E.)

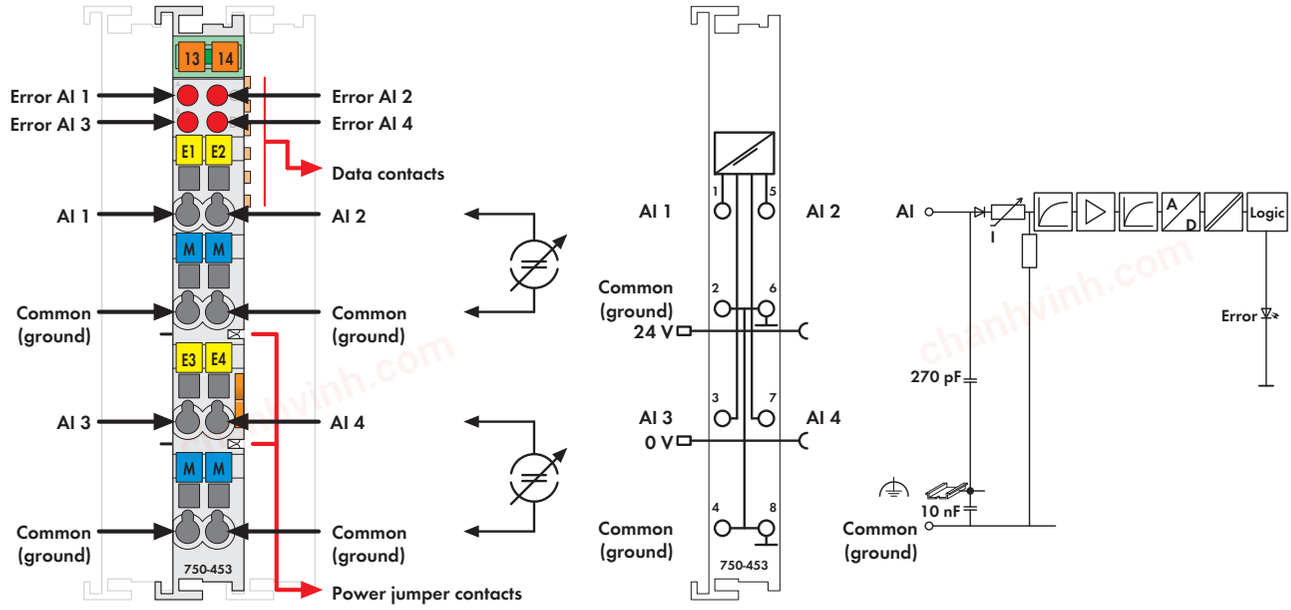


Fig. Series 750 / Technical data see page 28 / Delivery without Mini WSB marker
Series 750 / 753 marking see pages 16 ... 17 / 18 ... 19

The analog input module receives signals with standardized values of 0-20 mA and 4-20 mA.

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 the module have one common ground potential.

Description	Item no.	Pack. unit
4AI 0-20mA S.E.	**750-453**	10[1]
4AI 4-20mA S.E.	**750-455**	10[1]
4AI 4-20mA S.E./T	**750-455/025-000**	1
(Operating temperature -20 °C ... +60 °C)		
4AI 0-20mA S.E. (without connector)	**753-453**	10[1]
4AI 4-20mA S.E. (without connector)	**753-455**	10[1]

[1] Also available individually

Accessories		Item no.	Pack. unit
	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
Marine applications	see "Approvals Overview" in section 1

Technical Data

No. of inputs	4
Voltage supply	via system voltage DC/DC
Current consumption (internal)	65 mA
Input voltage (max.)	32 V
Signal current	0 mA ... 20 mA (750-453, 753-453)
	4 mA ... 20 mA (750-455, 753-455)
Input resistance	< 100 Ω/ 20 mA
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
Stripped lengths (750 / 753 Series)	8 ... 9 mm / 0.33 in
	9 ... 10 mm / 0.37 in
Width	12 mm
Weight	51 g
EMC CE-Immunity to interference	acc. to EN 50082-2 (1996)
EMC CE-Emission of interference	acc. to EN 50081-1 (1993)
EMC marine applications -	
Immunity to interference	acc. to Germanischer Lloyd (2003)
EMC marine applications -	
Emission of interference	acc. to Germanischer Lloyd (2003)

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