

## 2-Channel Digital Input Module 24 V DC

2- to 3-conductor connection; high-side switching; diagnostics

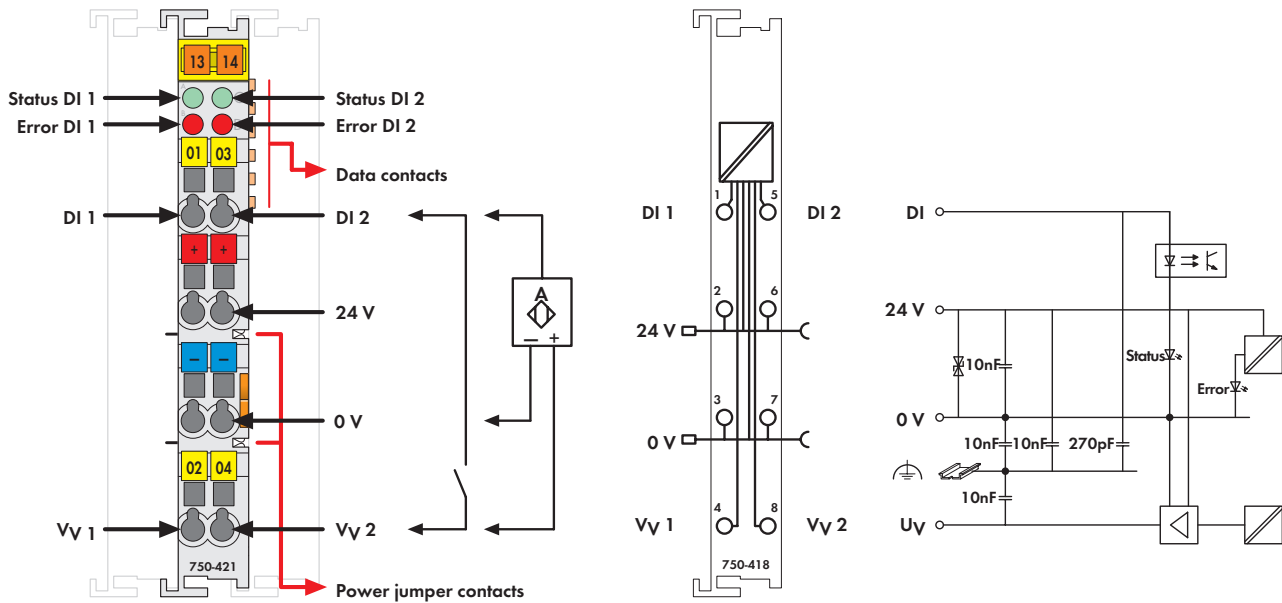





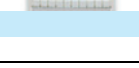
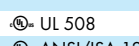
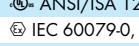
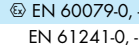

Fig. 750 Series/Technical data see page 24/Delivered without miniature WSB markers  
750/753 Series marking see pages 10 ... 11 / 12 ... 13

The digital input module receives control signals from the field side and supplies a short-circuit proof voltage to the sensors. The module transfers the control signals and other information via fieldbus coupler to a supervisory control.

An optocoupler is used for electrical isolation between the bus and the field side.

Each input module has a noise-rejection filter.

Each sensor can be supplied separately. A short circuit to ground is indicated as an error/fieldbus failure and a message is sent to the supervisory control. After the error has been eliminated the 750-418 Input Module will require an acknowledgement (performed by the operator via control). The 750-421 Input Module will acknowledge automatically.

Description	Item No.	Pack. Unit
2DI 24V DC 3.0ms, diagnostics, acknowledgement	750-418	1
2DI 24V DC 3.0ms, diagnostics	750-421	1
2DI 24V DC 3.0ms, diagnostics, acknowledgement (without connector)	753-418	1
2DI 24V DC 3.0ms, diagnostics (without connector)	753-421	1
<b>Accessories</b>		
 753 Series Connectors	753-110	25
 Coding elements	753-150	100
<b>Miniature WSB Quick marking system</b>		
 plain	248-501	5
 with marking	see pages 352 ... 353	
<b>Approvals</b>		
Conformity marking	Also see "Approvals Overview" in Section 1	
Shipbuilding	CE	
	ABS, BV, DNV, GL, KR, LR*, NKK*, PRS*, RINA*	
	*753 Series, pending	
	UL 508	
	Class I, Div. 2, Grp. ABCD, T4	
	BR-Ex nA II T4	
	I M2 / II 3 GD Ex nA IIC T4	
	EN 61241-0, -1	

Technical Data	
Number of inputs	2
No. of outputs	2 for transmitter supply
Current consumption (internal)	< 12 mA
Voltage via power jumper contacts	24 V DC (-25 % ... +30 %)
Signal voltage (0)	-3 V ... +5 V DC
Signal voltage (1)	15 V ... 30 V DC
Input filter	3.0 ms
Input current (typ.)	3.7 mA
Short-circuit current	1.5 A, undulating because of thermal overload protection
Sensor supply $V_V$	DC24 V
Max. output current	0.5 A
Isolation	500 V system/supply
Internal bit width	4 bits in; 4 bits out (750-418 / 753-418) 4 bits in (750-421 / 753-421)
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 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 61000-6-2 (2005)
EMC: CE - emission of interference	acc. to EN 61000-6-4 (2007)
EMC: marine applications	
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