

2-Channel Digital Input Module DC 24 V

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

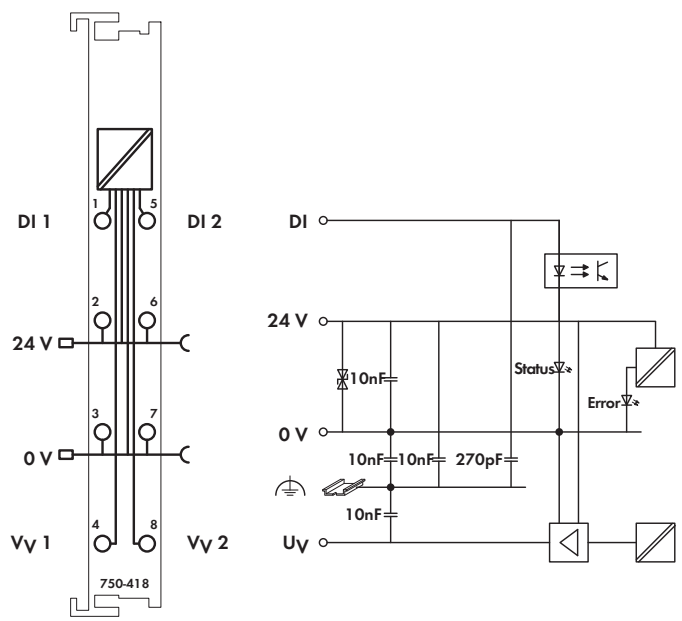
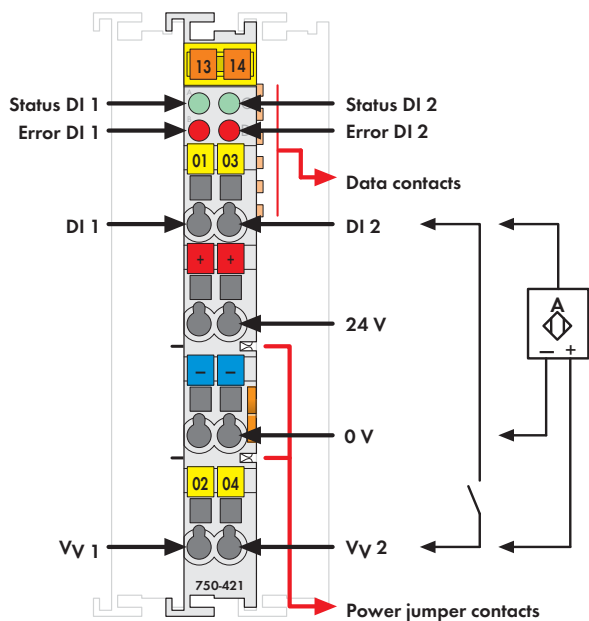


Fig. Series 750 / Technical data see page 28 / Delivery without Mini WSB marker
Series 750 / 753 marking see pages 16 ... 17 / 18 ... 19

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, diagnostic, acknowledgement	750-418	1
2DI 24V DC 3.0ms, diagnostic	750-421	1
2DI 24V DC 3.0ms, diagnostic, acknowledgement (without connector)	753-418	1
2DI 24V DC 3.0ms, diagnostic (without connector)	753-421	1
Accessories		
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	UL 508	
Conformity marking	CE	
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	
	BR-Ex nA II T4	
Marine applications	see "Approvals Overview" in section 1	

Technical Data	
No. of inputs	2
No. of outputs	2 for transmitter supply
Current consumption (internal)	< 12 mA
Voltage via power jumper contacts	DC 24 V (-25 % ... +30 %)
Signal voltage (0)	DC -3 V ... +5 V
Signal voltage (1)	DC 15 V ... 30 V
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	DC 24 V
Max. output current	0.5 A
Isolation	500 V system/supply
Internal bit width	4 bits in; 4 bits out (750418 / 753-418) 4 bits in (750-421 / 753-421)
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
Width	9 ... 10 mm / 0.37 in
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)