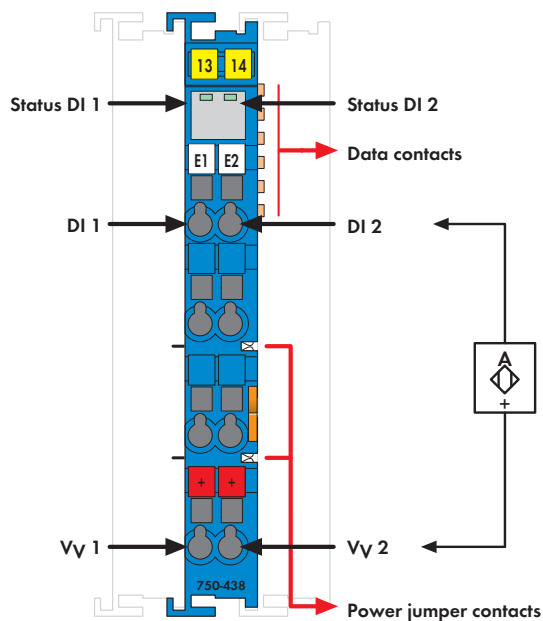
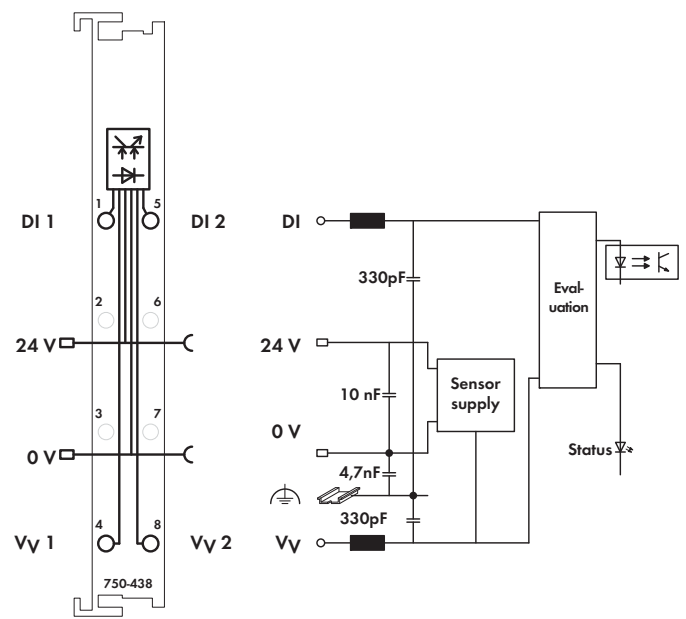


2-Channel Digital Input Module NAMUR, Ex i

Proximity sensor acc. to DIN EN 50227



Delivery without Mini WSB marker



The digital input module receives the binary signals from sensors operating in hazardous environments of Zones 0 and 1.

Namur sensors, optocouplers, mechanical contacts or other actuating elements can be connected by means of approved intrinsically safe devices.

The WAGO-I/O-SYSTEM 750 has to be installed in Zone 2 or in non-hazardous environments.

Each sensor is supplied with a short-circuit-protected 8.2 V supply. Indicators: Green LED (signal on/off)

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

Note:

Only use the digital input module in connection with the 24 V DC Ex i 750-625 Supply Module (note the power supply instructions on page 27)! General information (e.g. installation regulations) on explosion protection is available in the WAGO-I/O-SYSTEM 750 manuals!

Description	Item no.	Pack. unit
2DI NAMUR Ex i	750-438	1
Accessories	Item no.	Pack. unit
Miniature WSB quick marking system,		
 plain	248-501	5
with marking	see pages 256 ... 257	
Explosion Protection		
Ex directive	94 / 9 / EG; EN 50014, EN 50020, EN 60079-0, EN 60079-15	
Marking	Ⓔ II 3 (1) GD Ex nA [ia] IIC / IIB T4	
Electric circuit, safety relevant data	V ₀ = 12 V; I ₀ = 13.5 mA; P ₀ = 40.5 mW; Characteristic: Linear	
Intrinsically safe Ex ia IIB	L ₀ = 600 mH; C ₀ = 9 µF	
Intrinsically safe Ex ia IIC	L ₀ = 190 mH; C ₀ = 1,4 µF	
Intrinsically safe	without consideration of the simultaneousness; with consideration of the simultaneousness see manual	
Standards, Guidelines and Approvals		
EC EMC guideline	89 / 336 / EWG	
EC low voltage guideline	73 / 23 / EWG	
Ⓔ EN 50020	Ⓔ II 3 (1) GD Ex nA [ia] IIC / IIB T4	
Conformity marking	CE	
Ⓜ UL 508		
Ⓔ Ⓜ ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
Ⓔ EN 60079-15	I M2 / II 3 GD Ex nA IIC T4	

Technical Data

No. of inputs	2
Current consumption typ. (internal)	2.5 mA
Voltage via power jumper contacts	Supply via DC 24.7 V Ex i supply module (750-625)
Sensor supply V _V	DC 8.2 V
Signal current (0)	≤ 1.2 mA
Signal current (1)	≥ 2.1 mA
Input filter	3.0 ms
Switching hysteresis	0.2 mA
Open-circuit voltage	DC 8.2 V
Input resistance	1 kΩ
Input pulse duration	≥ 5 ms
Input pulse separation	≥ 3 ms
Short-circuit current	≤ 8.2 mA
Current consumption typ. (field side)	16 mA + load
Power consumption P (max.)	0.4 W
Power loss P _V	0.4 W
Isolation (peak value)	375 V system/supply
Internal bit width	2 bits (status)
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Stripped lengths	8 ... 9 mm / 0.33 in
Width	12 mm
Weight	48.5 g
EMC CE-Immunity to interference	acc. to EN 61000-6-2 (1999)
EMC CE-Emission of interference	acc. to EN 61000-6-4 (2002)