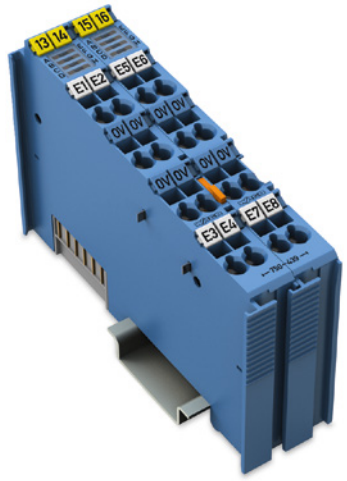
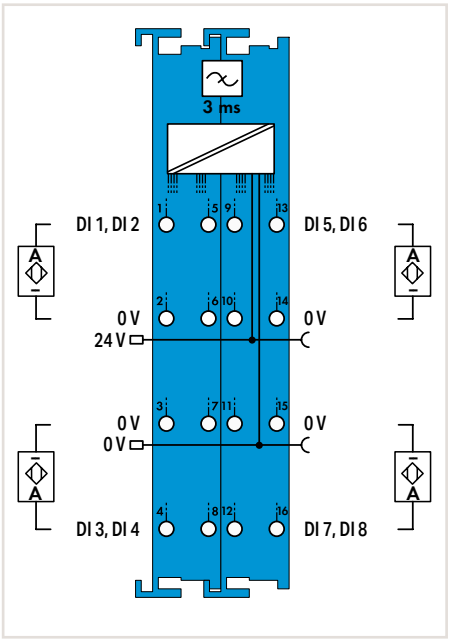
Digital Input; NAMUR; Ex i





Item Description	8-Channel Digital Input; NAMUR; Intrinsically safe
Item No.	750-439
Order Text	8DI; NAMUR; Ex i
Technical Data	
Number of digital inputs	8
Signal type	NAMUR
Sensor connection	2-wire
Input characteristic	High-side switching
Input filter (digital)	3 ms
Open-circuit voltage	8.2 VDC
Diagnostics	Short circuit; wire break (can be switched off)
Supply voltage (sensor)	8.2 VDC; short-circuit-protected; isolated channels
Supply voltage (field)	24 VDC (Ex i power supply: U_O = max. 27.3 V); via power jumper contacts (power supply via blade contact; transmission via spring contact)
Current consumption, field supply (module with no external load)	11 mA
Current consumption – system supply (5 V)	56 mA
Data width (internal)	16 bits
Isolation	U_m = 375 V system/supply
Surrounding air temperature (operation)	0 … +55 °C
Dimensions W x H x D	24 x 67.8 x 100 mm
Explosion Protection	
Safety-relevant data (circuit)	U_o = 11.76 V; I_o = 12.4 mA; P_o = 36.67 mW; Linear characteristic curve
Reactances Ex ia IIC	L_o = 100 mH; C_o = 1 µF
Reactances Ex ia IIB	L_o = 100 mH; C_o = 9.9 µF
Reactances Ex ia IIA	L_o = 100 mH; C_o = 39 µF
Reactances Ex ia I	L_o = 100 mH; C_o = 30 µF
Ex guideline	EN IEC 60079-0, -7, -11
Approvals	CE; KC; Marine; cULus OrdLoc/HazLoc/AEx; ATEX/IECEx; INMETRO
Marking	ATEX/IECEx: II 3 (1) G Ex ec [ia Ga] IIC T4 Gc II (1) D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I
Data sheet and further information, see:	wago.com/750-439

Reactances without accounting for the concurrence of capacitance (C_o) and inductance (L_o)