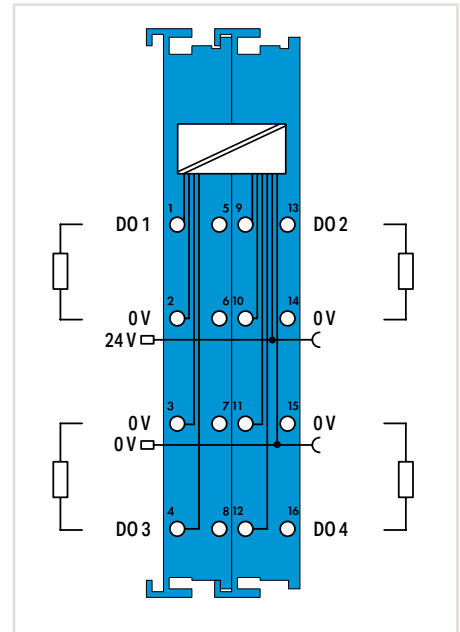
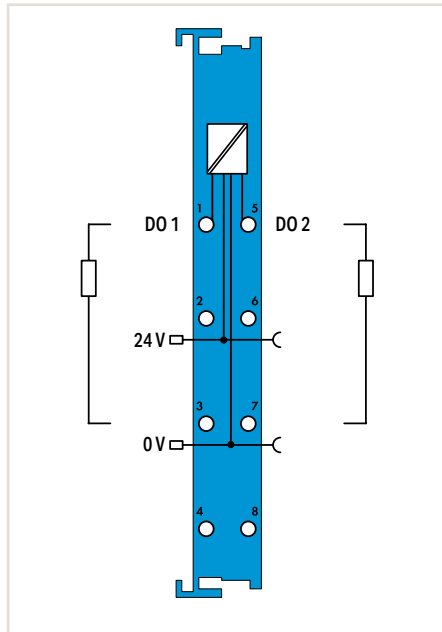


Digital Output; 24 VDC; Ex i



Figure: 750-535

Figure: 750-539



Item Description	2-Channel Digital Output; 24 VDC; Intrinsically safe	4-Channel Digital Output; 24 VDC; Valve; Intrinsically safe
Item No.	750-535	750-539
Order Text	2DO; 24 VDC; Ex i	4DO; 24 VDC; Valve; Ex i
5.9 Technical Data		
Number of digital outputs	2	4
Signal type	24 VDC	24 VDC
Output characteristic	High-side switching	High-side switching
Load type	Resistive; inductive; lamp load	Resistive; inductive; lamp load
Actuator connection	2-wire	2-wire
Switching frequency (max.)	1 kHz	100 Hz
Supply voltage (field)	24 VDC (Ex i power supply: $U_o = \text{max. } 27.3 \text{ V}$); via power jumper contacts (power supply via blade contact; transmission via spring contact)	24 VDC (Ex i power supply: $U_o = \text{max. } 27.3 \text{ V}$); via power jumper contacts (power supply via blade contact; transmission via spring contact)
Current consumption, field supply (module with no external load)	8.5 mA	10 mA
Current consumption – system supply (5 V)	7 mA	20 mA
Data width (internal)	2 bits	4-bit output; 4-bit input (diagnostics)
Isolation	$U_m = 375 \text{ V system/supply}$	$U_m = 375 \text{ V system/supply}$
Surrounding air temperature (operation)	0 ... +55 °C	0 ... +55 °C
Dimensions W x H x D	12 x 67.8 x 100 mm	24 x 67.8 x 100 mm
Explosion Protection		
Safety-relevant data (circuit)	$U_o = 27.3 \text{ V}$; $I_o = 106 \text{ mA}$; $P_o = 723 \text{ mW}$; Linear characteristic curve	$U_o = 27.3 \text{ V}$; $I_o = 117.5 \text{ mA}$; $P_o = 800.1 \text{ mW}$; Linear characteristic curve
Reactances Ex ia IIC	$L_o = 3 \text{ mH}$; $C_o = 88 \text{ nF}$	$L_o = 13 \mu\text{H}$; $C_o = 88 \text{ nF}$
Reactances Ex ia IIB	$L_o = 12 \text{ mH}$; $C_o = 680 \text{ nF}$	$L_o = 8.1 \text{ mH}$; $C_o = 683 \text{ nF}$
Reactances Ex ia IIA	$L_o = 18 \text{ mH}$; $C_o = 2.2 \mu\text{F}$	$L_o = 14 \text{ mH}$; $C_o = 2.28 \mu\text{F}$
Reactances Ex ia I	$L_o = 20 \text{ mH}$; $C_o = 3.6 \mu\text{F}$	$L_o = 21 \text{ mH}$; $C_o = 3.6 \mu\text{F}$
Reactances	Reactances without accounting for the concurrence of capacitance (C_o) and inductance (L_o)	Reactances without accounting for the concurrence of capacitance (C_o) and inductance (L_o)
Ex guideline	EN IEC 60079-0, -7, -11	EN IEC 60079-0, -7, -11
Approvals	CE; Marine; OrdLoc/HazLoc/AEx; ATEX/IECEX; INMETRO	CE; Marine; ATEX/IECEX
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	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