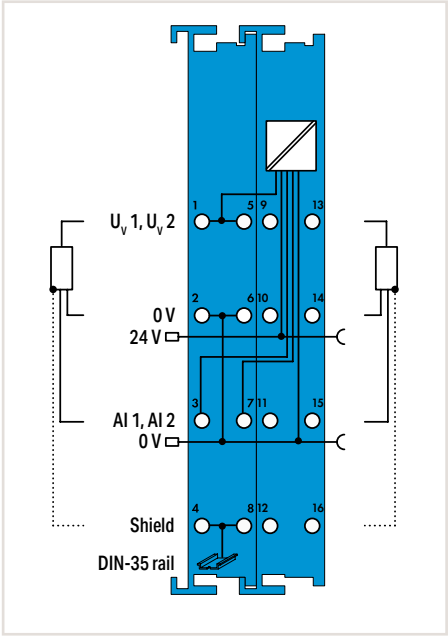
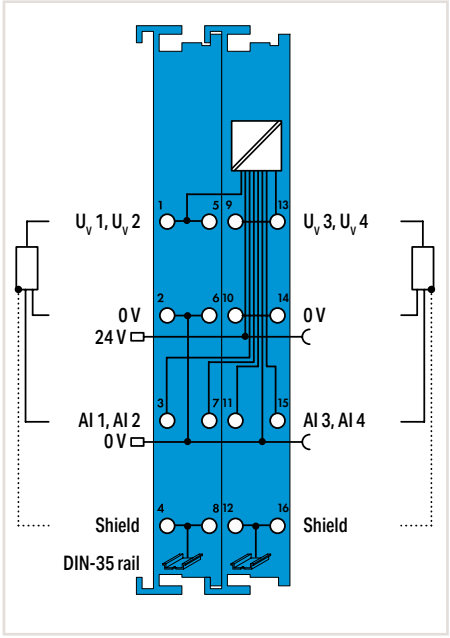
Analog Input; 4 … 20 mA or 0/4 … 20 mA; Ex i

Figure: 750-486





Item Description	2-Channel Analog Input; 4 … 20 mA; Intrinsically safe	4-Channel Analog Input; 0/4 … 20 mA; NAMUR NE43; Intrinsically safe
Item No.	**750-485**	**750-486**
Order Text	4AI; 4–20mA; Ex i	4AI; 0/4–20mA; NE43; Ex i
Technical Data		
Number of analog inputs	2	4
Signal type	4 … 20 mA	0 … 20 mA; 4 … 20 mA; 3.6 … 21 mA
Signal characteristic	Single-ended	Single-ended
Input resistance	< 100 Ω	< 200 Ω
Resolution	12 bits	12 bits + sign bit
Conversion time	< 2 ms	< 10 ms
Measuring error (max.) at 25 °C	±0.2 % of the upper-range value	±0.1 % of the upper-range value
Temperature error (max.)	±0.01 %/K of the upper-range value	±0.01 %/K of the upper-range value
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)	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	19 mA
Current consumption – system supply (5 V)	31 mA	45 mA
Transmitter supply	U_V = 16 V at 20 mA	U_V = 15 V at 20 mA
Data width	2 x 16-bit data; 2 x 8-bit control/status (optional)	4 x 16-bit data; 4 x 8-bit control/status (optional)
Isolation	U_m = 375 V system/supply	U_m = 375 V system/supply
Surrounding air temperature (operation)	0 … +55 °C	0 … +55 °C
Dimensions W x H x D	24 x 67.8 x 100 mm	24 x 67.8 x 100 mm
Explosion Protection		
Safety-relevant data (circuit)	U_o = 27.3 V; I_o = 90 mA; P_o = 0.61 mW; Linear characteristic curve	U_o = 27.3 V; I_o = 98.4 mA; P_o = 0.672 mW; Linear characteristic curve
Reactances Ex ia IIC	L_o = 5 mH; C_o = 88 nF	L_o = 970 µH; C_o = 88 nF
Reactances Ex ia IIB	L_o = 18 mH; C_o = 680 nF	L_o = 13 mH; C_o = 683 nF
Reactances Ex ia IIA	L_o = 40 mH; C_o = 2.2 µF	L_o = 22 mH; C_o = 2.28 µF
Reactances Ex ia I	L_o = 100 mH; C_o = 3.5 µF	L_o = 31 mH; C_o = 3.6 µF
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; KC; Marine; OrdLoc/HazLoc/AEx; ATEX/IECEx; INMETRO	CE; KC; 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
Data sheet and further information, see:	wago.com/750-485	wago.com/750-486