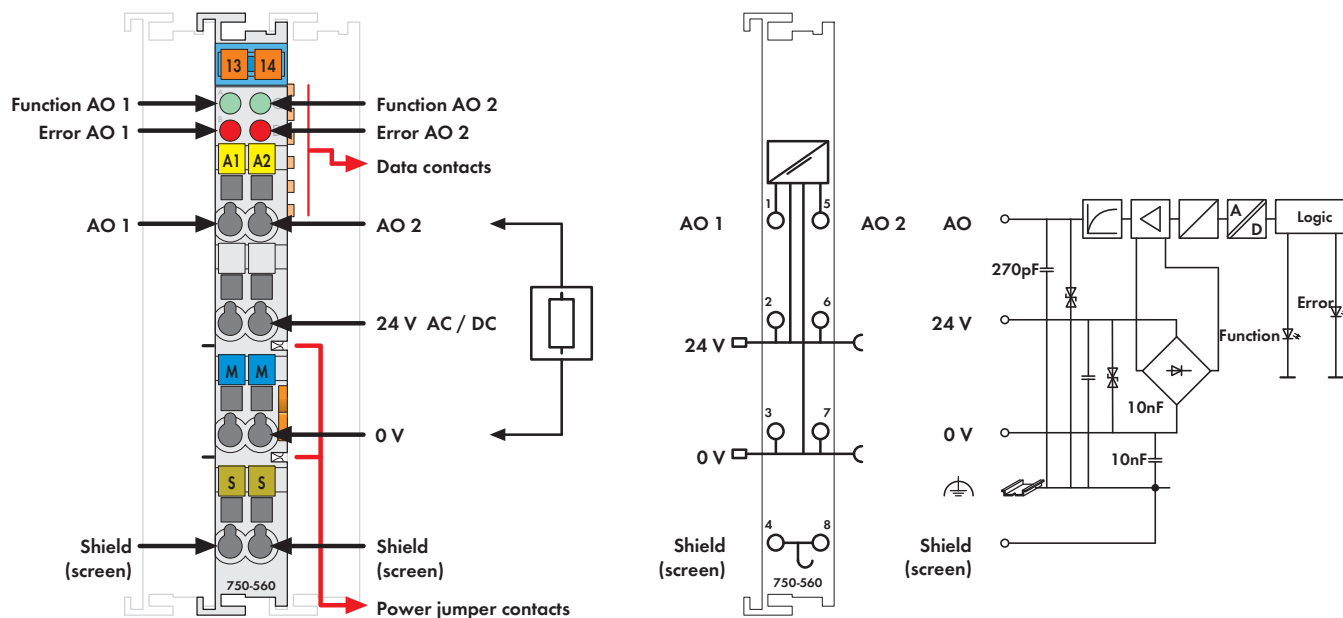


2-Channel Analog Output Module 0-10 V

10 bits, 10 mA



Delivered without miniature WSB markers

The analog output module generates signals of a standard magnitude 0–10V.

Both the internal system and field side supply are used to power the module.

The output signal is electrically isolated and transmitted with a resolution of 10 bits.


The output channels have one common ground potential.

The outputs are short-circuit proof.

The analog outputs and the 24V supply have one common ground potential so that actuators such as servo drives can be connected using a 3-conductor cable.

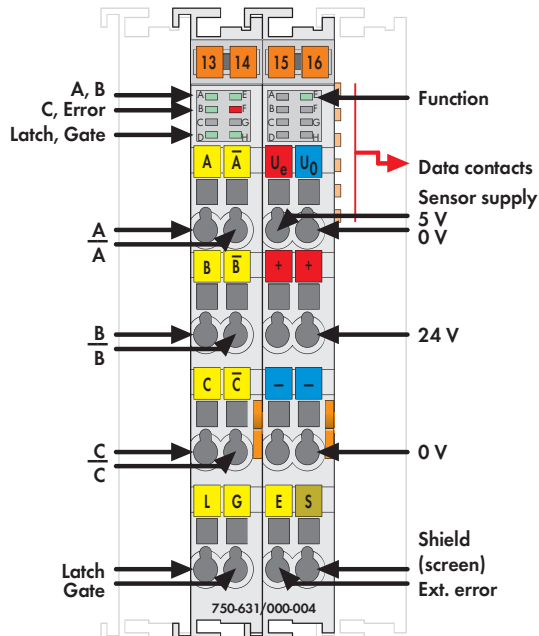
Each channel is equipped with an LED to indicate short-circuits or overloads $\geq 15\text{mA}$.

The shield (screen) is directly connected to the DIN rail.

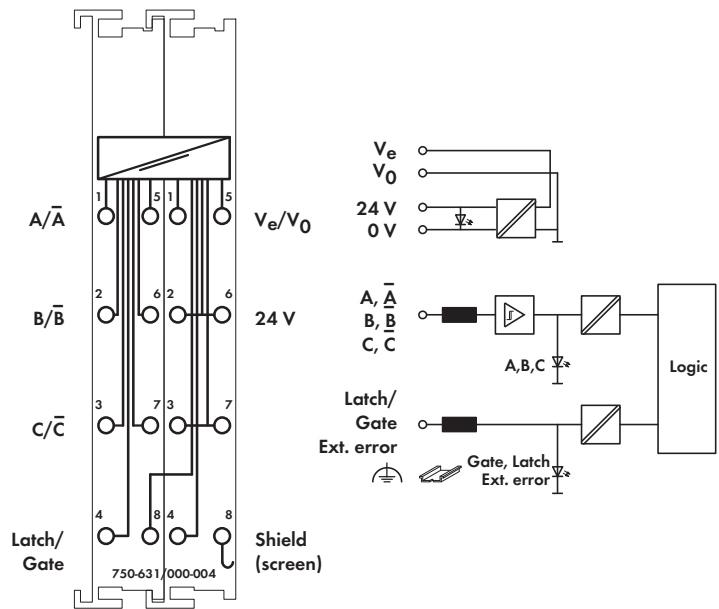
Description	Item No.	Pack. Unit
2AO 0-10 V DC 10 Bit 10mA 24V	750-560	1
Accessories		
Miniature WSB Quick marking system		
 plain	248-501	5
with marking	see pages 352 ... 353	
Approvals		
Also see "Approvals Overview" in Section 1		
Conformity marking	CE	
UL 508		
ANSI/ISA 12.12.01	pending	
EN 60079-0, -15	pending	
EN 61241-0, -1		

Technical Data	
No. of outputs	2
Current consumption (internal)	16 mA
Voltage via power jumper contacts	24 V AC/DC
Signal voltage	0 V ... 10 V
Load impedance	$\geq 1 \text{ k}\Omega$
Resolution	10 bits
Conversion time	approx. 10 ms
Measuring error (25°C)	$< \pm 0.2 \%$ of the full scale value
Temperature coefficient	$< \pm 0.02 \%$ /K of the full scale value
Isolation	500 V system/supply
Bit width	2 x 16 bits data 2 x 8 bits control/status (option)
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 14
Stripped lengths	8 ... 9 mm / 0.33 in
Width	12 mm
Weight	53.5 g
EMC: CE - immunity to interference	acc. to EN 61000-6-2 (2005)
EMC: CE - emission of interference	acc. to EN 61000-6-4 (2007)

1 Incremental Encoder Interface



Delivered without miniature WSB markers



This module is an interface for connection of any incremental encoder.

A 16 bit counter with quadrature encoder interface as well as a 16 bit latch for the zero impulse can be read, set, or enabled. The count of the counter will be transmitted fast and interference-free over the fieldbus to the PC, PLC, or NC.

A counter lock-out is possible using input G.

The power supply for the transmitter is derived internally from the power jumper contacts U_e/U_0 .

The shield (screen) is directly connected to the DIN rail.

Description	Item No.	Pack. Unit
Incremental Encoder Interface RS-422	750-631/000-004	1
Accessories		
Miniature WSB Quick marking system		
plain	248-501	5
with marking	see pages 352 ... 353	
Approvals		
	Also see "Approvals Overview" in Section 1	
Conformity marking	CE	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
EN 50021	II 3 G EEx nA II T4	
UL 508		

Technical Data	
Sensor connection	A, \bar{A} , B, \bar{B} , C, \bar{C}
Current consumption (internal)	50 mA
Counter	16 bits binary
Max. operating frequency	1000 kHz
Quadrature decoder	4-fold report
Zero impulse latch	16 bits
Commands	read, set, enable
Power supply	24 V DC (-1.5 % ... +20 %)
Current consumption (typ.)	6 mA without sensor
Operating voltage of sensor	DC 5 V
Sensor max. output current	200 mA
Signal voltage (0)	$V_{ABC} = 0 V, V_{\bar{ABC}} = 5 V$ Latch, Gate $\leq 5.0 V$ Ext. error $V \geq 5.0 V$ or input open
Signal voltage (1)	$V_{ABC} = 5 V, V_{\bar{ABC}} = 0 V$ Latch, Gate $\geq 15.0 V$ Ext. error $V < 0.5 V$
Isolation	500 V system/supply
Internal bit width	1 x 32 bits data 1 x 8 bits control/status 1 x 8 bits reserved
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 14
Stripped lengths	8 ... 9 mm / 0.33 in
Width	24 mm
Weight	100 g
EMC: CE - immunity to interference	acc. to EN 61000-6-2 (2005)
EMC: CE - emission of interference	acc. to EN 61000-6-4 (2007)