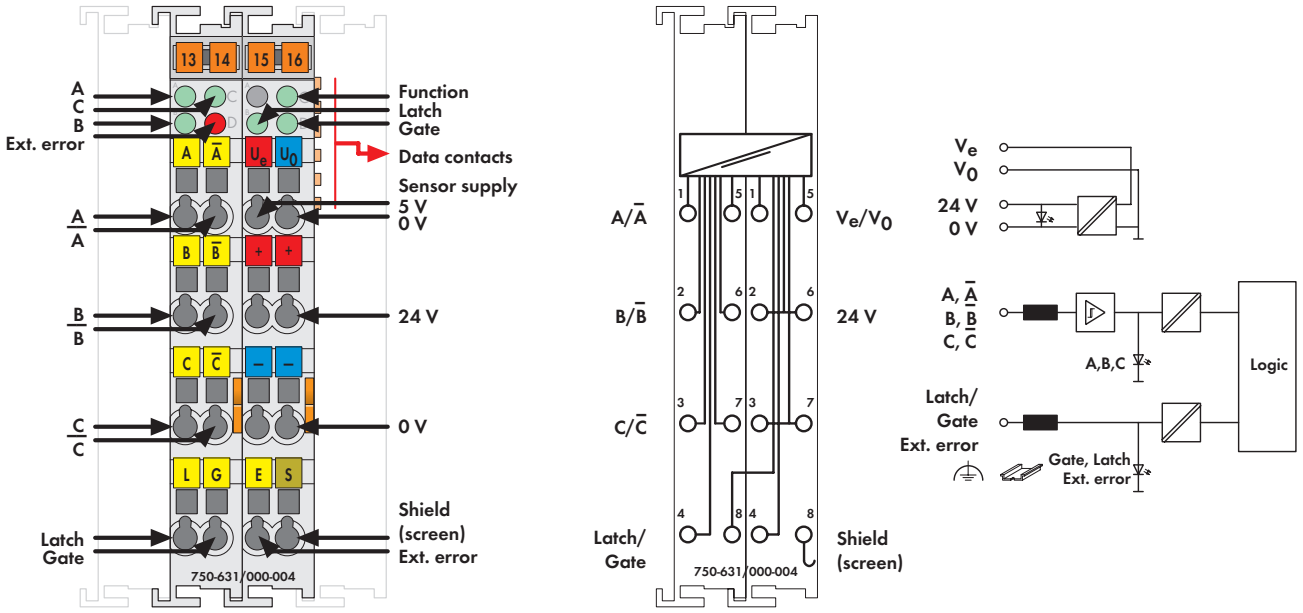
Incremental Encoder Interface



Delivered without miniature WSB markers

This module is an interface for the connection of any incremental encoder (with line driver outputs).
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 module must be powered using an external 24VDC power supply. It is then possible to supply the encoder with 24VDC, or alternatively with 5VDC derived internally from the terminations (V_e/V_0).
The shield (screen) is directly connected to the carrier rail.

Description	Item No.	Pack. Unit
Incremental Encoder Interface RS-422	**750-631/000-004**	1

Accessories		Item No.	Pack. Unit
Miniature WSB Quick marking system			
	plain	**248-501**	5
	with marking	see pages 304 ... 305	

Approvals

750 Series	
Conformity marking	CE
UL 508	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4
EN 50021	II 3 G EEx nA II T4

Technical Data

Sensor connection	A, $\overline{A}$, B, $\overline{B}$, C, $\overline{C}$
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
Voltage supply	24 V DC (-15 % ... +20 %)
Current consumption (typ.)	6 mA without sensor
Operating voltage of sensor	5 V DC
Sensor max. output current	200 mA
Signal voltage (0)	V_{ABC} = 0 V, $V_{\overline{ABC}}$ = 5 V
	Latch, Gate ≤ 5.0 V
	Ext. error V ≥ 5.0 V or input open
Signal voltage (1)	V_{ABC} = 5 V, $V_{\overline{ABC}}$ = 0 V
	Latch, Gate ≥ 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 mm² ... 2.5 mm² / AWG 28 ... 14
Stripped lengths	8 ... 9 mm / 0.33 in
Width	24 mm
Weight	106.5 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)