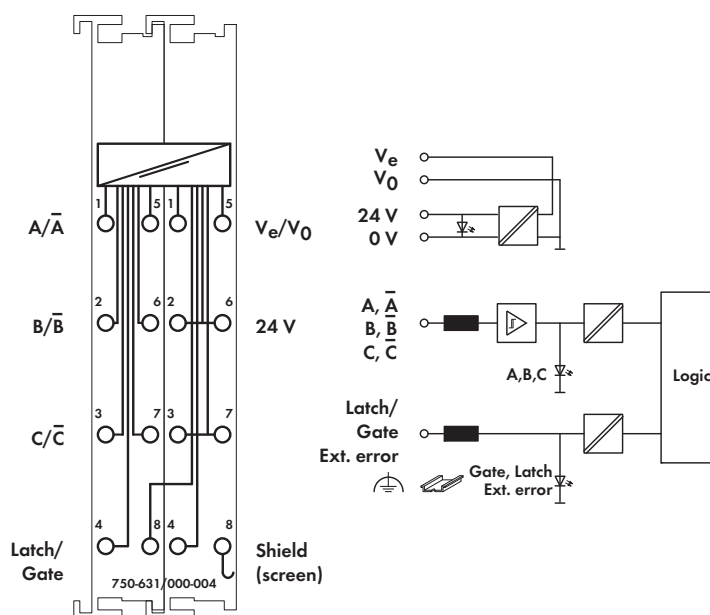
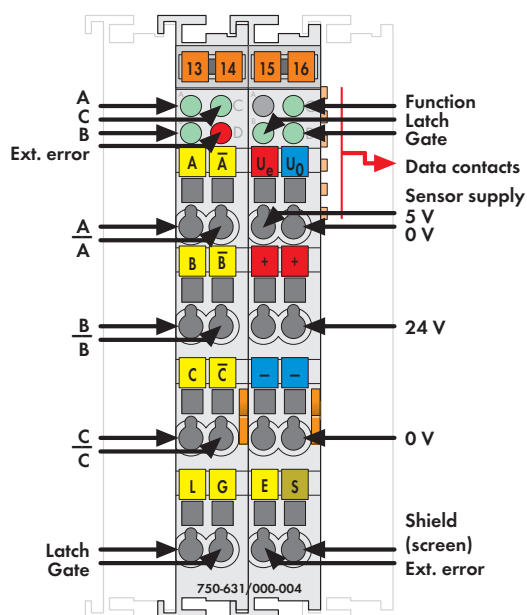


Incremental Encoder Interface



Delivery without Mini WSB marker

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 24 V DC power supply.

It is then possible to supply the encoder with 24 V DC, or alternatively with 5 V DC 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		
Miniature WSB quick marking system,		
 plain	248-501	5
with marking	see pages 256 ... 257	
Approvals		
Series 750		
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	$A, \bar{A}, B, \bar{B}, C, \bar{C}$
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
Voltage supply	DC 24 V (-15 % ... +20 %)
Current consumption (typ.)	6 mA without sensor
Operating voltage of sensor	DC 5 V
Sensor max. output current	200 mA
Signal voltage (0)	$V_{ABC} = 0 \text{ V}, V_{\bar{ABC}} = 5 \text{ V}$ Latch, Gate $\leq 5.0 \text{ V}$ Ext. error $V \geq 5.0 \text{ V}$ or input open
Signal voltage (1)	$V_{ABC} = 5 \text{ V}, V_{\bar{ABC}} = 0 \text{ V}$ Latch, Gate $\geq 15.0 \text{ V}$ Ext. error $V < 0.5 \text{ V}$
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