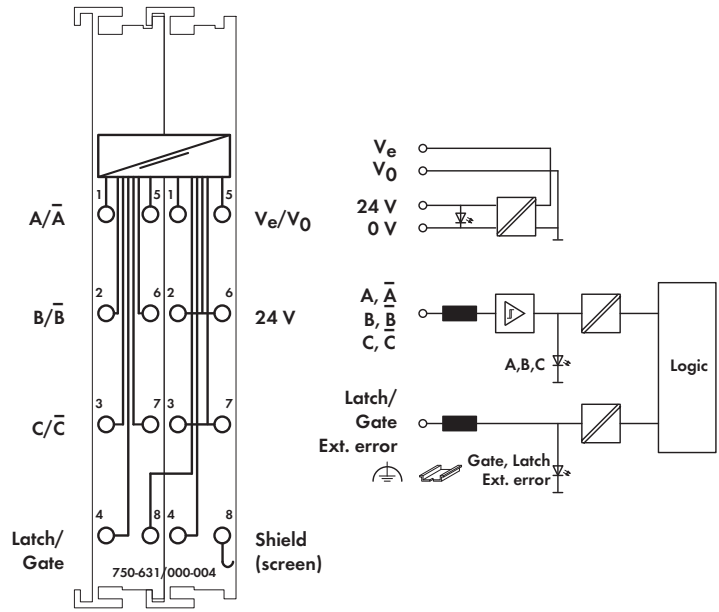
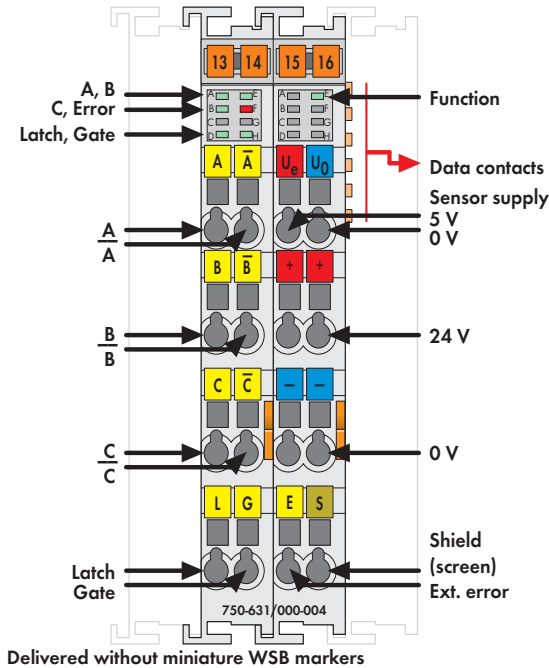


Incremental Encoder Interface



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

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

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 Ue/U0.

| 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 Section 11 | |
| Approvals | | |
| Conformity marking | CE | |
| UL 508 | | |
| ANSI/ISA 12.12.01 | Class I, Div. 2, Grp. ABCD, T4 | |
| DEKRA 11 ATEX 0203 X | II 3 G Ex nA II T4 | |

| Technical Data | |
|--------------------------------|---|
| Sensor connection | A, A/, B, B/, C, C/ (RS-422 inputs) |
| 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 (-15 % ... +20 %) |
| Current consumption (typ.) | 10 mA without sensor |
| Operating voltage of sensor | 5 VDC |
| Sensor max. output current | 200 mA |
| Signal voltage (0) | V _{ABC} = 0 V, V _{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 _{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 mm ² ... 2.5 mm ² / AWG 28 ... 14 |
| Strip lengths | 8 ... 9 mm / 0.33 in |
| Width | 24 mm |
| Weight | 100 g |
| EMC immunity of interference | acc. to EN 61000-6-2 |
| EMC emission of interference | acc. to EN 61000-6-4 |