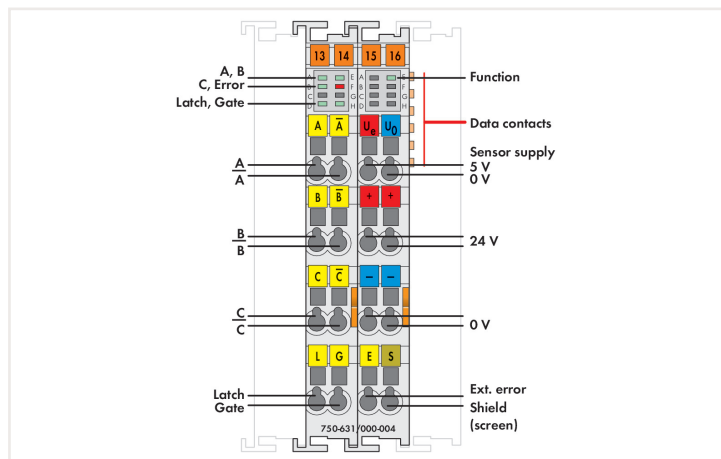
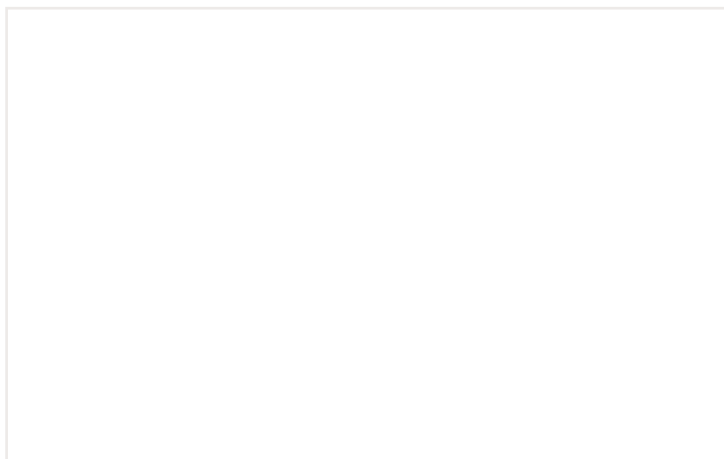


Data sheet | Item number: 750-631/000-010

Incremental encoder interface; 5 ... 24 VDC

<https://www.wago.com/750-631/000-010>

This module is an interface for the 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 the "Gate" input.

The power supply for the transmitter is derived internally from the power jumper contacts Ue/U0.

The shield directly connects to the DIN-rail.

Technical data

Counter depth	16 bits
Encoder connection	A, A/, B, B/, C, C/ (RS-422 inputs)
Supply current (encoder) max.	200 mA
Zero impulse (latch)	16 bits
Quadrature decoder	4x evaluation
Voltage range for signal (0)	$U_{ABC} = 0\text{ V}$, $U_{ABC/} = 5\text{ V}$; Latch, gate $\leq 5.0\text{ V}$; External error $U \geq 5.0\text{ V}$ or open input
Voltage range for signal (1)	$U_{ABC} = 5\text{ V}$, $U_{ABC/} = 0\text{ V}$; Latch, gate $\geq 15.0\text{ V}$; External error U
Data width	1 x 32-bit data, 1 x 8-bit control/status, 1 x 8 bits reserved
Limit frequency	1000 kHz
Commands	Reading, setting, activating
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	50 mA
Current consumption, field supply (module with no external load)	10 mA
Isolation	500 V system/field

Connection data

Connection type 1	Inputs/outputs
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

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Physical data

Width	24 mm / 0.945 inches
Height	100 mm / 3.937 inches
Depth	69.8 mm / 2.748 inches
Depth from upper-edge of DIN-rail	62.6 mm / 2.465 inches

Mechanical data

Mounting type	DIN-35 rail
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Material data

Fire load	0.174 MJ
Weight	91.8 g

Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Surrounding air temperature (storage)	-40 ... +85 °C
Protection type	IP20
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	horizontal (standing/lying); vertical
Vibration resistance	per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27

Approvals and certificates

General approvals



Approval	Standard	Certificate name
EAC Brjansker Zertifizierungs- stelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087/19
UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS)	UL 508	E175199 Sec.1

Approvals for hazardous areas



Approval	Standard	Certificate name
EAC Brjansker Zertifizierungs- stelle	TP TC 012/2011	EAC RU C-DE.AM02. B.00163/19 (2Ex nA IIC T4 Gc X)
UL Underwriters Laboratories Inc. (HAZARDOUS LOCA- TIONS)	UL 121201	E198726 Sec.1

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at: www.wago.com



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