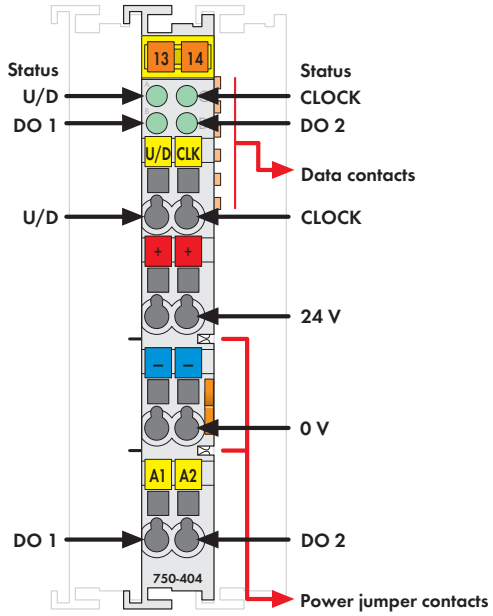
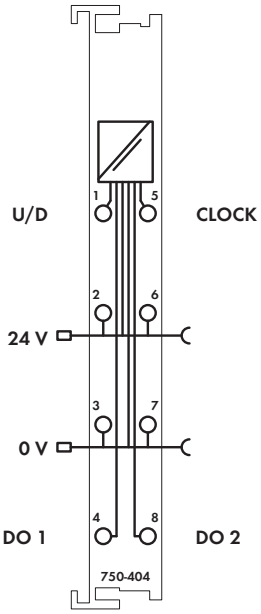
Up/Down Counter DC 24 V, 100 kHz





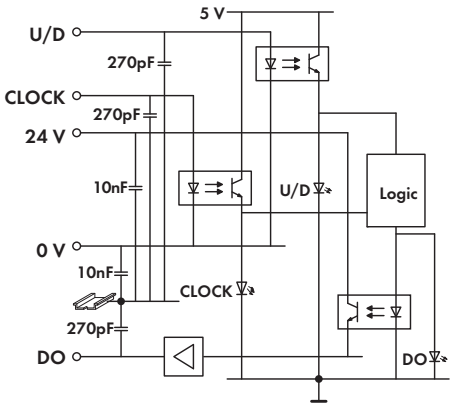


Fig. Series 750 / Technical data see page 28 / Delivery without Mini WSB marker
Series 750 / 753 marking see pages 16 ... 17 / 18 ... 19

The up/down counter is capable of counting binary pulses of DC 24 V and then transmits the data to the fieldbus.

The U/D input allows either Up or Down counting.

Digital outputs DO 1 and DO 2 can be set using the control byte.

The counter can be set or reset with the control byte.

A counter lock-out is also possible.

Differing technical data 750-404/000-003
- Measuring error < ± 0.2 % (measuring range 0.1 Hz ... 10 kHz)
- Measuring error < ± 1.5 % (measuring range 0.1 Hz ... 100 kHz)

Differing technical data 750-404/000-005
- Switching rate max. : 5 kHz
- Counter depth: 2 x 16 bits
- Internal bit width: 2 x 16 bits data

Description	Item no.	Pack. unit
Up/Down Counter/100kHz	**750-404**	1
Up Counter/Enable Input	**750-404/000-001**	1
Counter with enable input (Gate), U/D input serves as Gate input		
Peak Time Counter	**750-404/000-002**	1
Frequency Counter 0.1 Hz - 100 kHz	**750-404/000-003**	1
Frequency measurement, U/D input serves as Gate input		
Up/Down Counter/Switch Output	**750-404/000-004**	1
Counter with digital outputs (output switches depending on the count of the counter)		
2 Up Counter/16 Bit / 5 kHz	**750-404/000-005**	1
U/D input serves as Clock input of the 2. counter		
Up/Down Counter, 100 Hz (without connector)	**753-404**	1

Accessories	Item no.	Pack. unit
753 Series connector	**753-110**	25
Coding elements	**753-150**	100
Miniature WSB quick marking system,		
plain	**248-501**	5
with marking	see pages 256 ... 257	

Approvals

Series 750 and 753	
Conformity marking	CE
UL 508	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4
Series 750	
EN 60079-15	I M2 / II 3 GD Ex nA IIC T4
Marine applications	see "Approvals Overview" in section 1

Technical Data

No. of outputs	2
No. of counters	1
Current consumption (internal)	70 mA
Voltage via power jumper contacts	DC 24 V (-15 % ... +20 %)
Output current	0.5 A short-circuit protected
Signal voltage (0)	DC -3 V ... +5 V
Signal voltage (1)	DC 15 V ... 30 V
Switching rate (max.)	100 kHz
Input current (typ.)	5 mA
Counter depth	32 bits
Isolation	500 V system/supply
Internal bit width	32 bits data
	8 bits control/status
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Stripped lengths (750 / 753 Series)	8 ... 9 mm / 0.33 in
	9 ... 10 mm / 0.37 in
Width	12 mm
Weight	60 g
EMC CE-Immunity to interference	acc. to EN 50082-2 (1996)
EMC CE-Emission of interference	acc. to EN 50081-1 (1993)
EMC marine applications - Immunity to interference	acc. to Germanischer Lloyd (2003)
EMC marine applications - Emission of interference	acc. to Germanischer Lloyd (2003)

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