



Fig. 750 Series/Technical data see page 24/Delivered without miniature WSB markers
750/753 Series marking see pages 12 ... 13 / 14 ... 15

The up/down counter is capable of counting binary pulses of 24VDC 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 $\leq \pm 0.2\%$ (measuring range 0.1 Hz ... 10 kHz)
- Measuring error $\leq \pm 1.5\%$ (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/100 kHz	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 2nd counter		
Up/Down Counter, 100 Hz (without connector)	753-404	1
Frequency Counter 0.1 Hz - 100 kHz (without connector)	753-404/000-003	1
Frequency measurement, U/D input serves as Gate input		
Accessories	Item No.	Pack. Unit
753 Series Connectors	753-110	25
Coding elements	753-150	100
Miniature WSB Quick marking system		
plain	248-501	5
with marking	see pages 304 ... 305	
Approvals		
750 and 753 Series		
Conformity marking	CE	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
750 Series (Approvals for product variations upon request)		
EN 60079-15	I M2 / II 3 GD Ex nA IIC T4	
Shipbuilding	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	24 V DC (-15 % ... +20 %)
Output current	0.5 A short-circuit protected
Signal voltage (0)	-3 V ... +5 V DC
Signal voltage (1)	15 V ... 30 V DC
Switching frequency (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 61000-6-2 (2005)
EMC CE-Emission of interference	acc. to EN 61000-6-4 (2007)
EMC marine applications - Immunity to interference	acc. to Germanischer Lloyd (2003)
EMC marine applications - Emission of interference	acc. to Germanischer Lloyd (2003)