



Fig. 750 Series
Delivered without miniature WSB markers

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	753-404/000-003	1
Frequency measurement, U/D input serves as Gate input		
2 Up Counter/16 Bit / 5 kHz (without connector)	753-404/000-005	1
U/D input serves as Clock input of the 2nd counter		

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
Max. switching frequency	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 mm ² ... 2.5 mm ² / AWG 28 ... 14
Strip lengths, 750/753 Series	8 ... 9 mm / 0.33 in
	9 ... 10 mm / 0.37 in
Width	12 mm
Weight	51 g
EMC immunity of interference	acc. to EN 61000-6-2, marine applications
EMC emission of interference	acc. to EN 61000-6-4, marine applications

Accessories	Item No.	Pack. Unit
753 Series Connectors	753-110	25
Coding elements	753-150	100
Miniature WSB Quick marking system	see Section 11	

Approvals

Conformity marking	CE
Korea Certification	KCC
Marine applications (versions upon request)	ABS, BV, DNV, GL, KR, LR, NKK, PRS, RINA
UL 508	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4
TÜV 07 ATEX 554086 X	I M2 Ex d I Mb, II 3 G Ex nA IIC T4 Gc, II 3 D Ex tc IIIC T135°C Dc
IECEx TUN 09.0001 X	Ex d I Mb, Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc