



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 |

| Approvals | |
|---|---|
| Conformity marking | CE |
| Korea Certification | |
| 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 |

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