2-Channel Up/Down Counter 24 V DC, 500 Hz

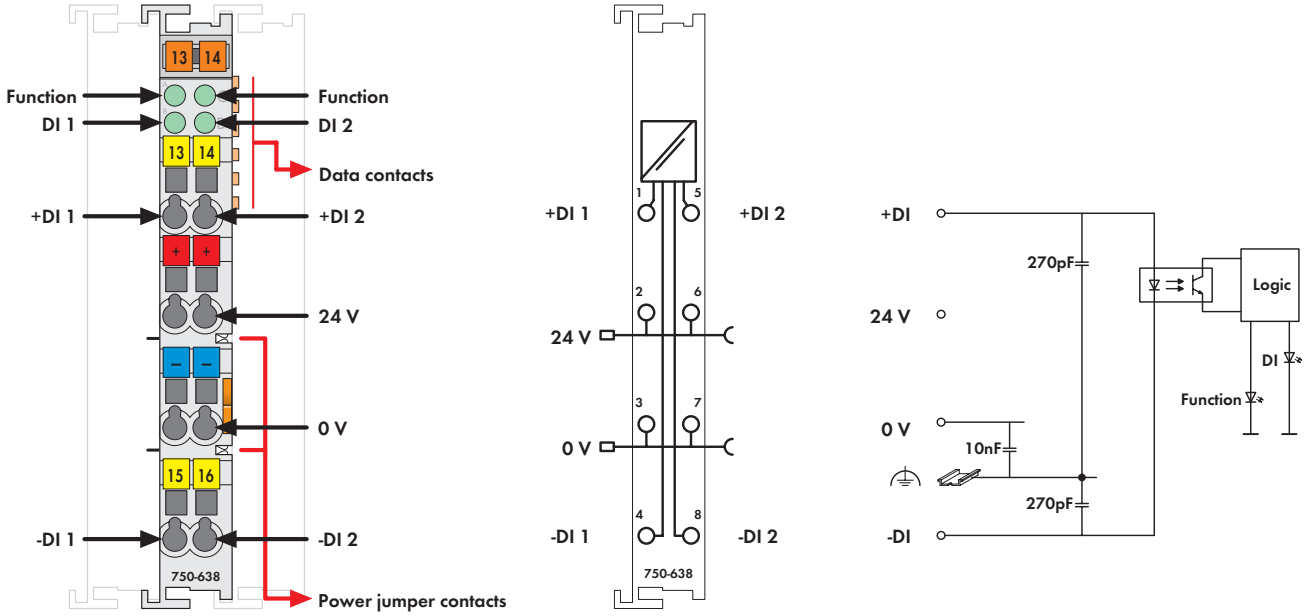

Fig. 750 Series/Technical data see page 24/Delivered without miniature WSB markers
750/753 Series marking see pages 12 ... 13 / 14 ... 15

The up/down counter has two counters that allow independent counting of 24VDC binary pulses. The data is then transmitted to the control via the fieldbus.

The counters can be set or reset with the control bytes. A counter lock-out is also possible.

The control bytes also determine the direction of counting.

Description	Item No.	Pack. Unit
2-Channel Up/Down Counter, 500 Hz	**750-638**	1
2-Channel Up/Down Counter, 500 Hz/T	**750-638/025-000**	
(Operating temperature -20 °C ... +60 °C)		
2-Channel Up / Down Counter, 500 Hz	**753-638**	1
(without connector)		

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
	BR-Ex nA II T4

Technical Data	
No. of counters	2
Current consumption typ. (internal)	10 mA
Voltage via power jumper contacts	24 V DC (-15 % ... +20 %)
Signal voltage (0)	-3 V ... +5 V DC (acc. to EN 61131 type 1)
Signal voltage (1)	15 V ... 30 V DC (acc. to EN 61131 type 1)
Common mode voltage (max.)	500 V DC
Minimum pulse width (0, 1)	1 ms
Input filter	0.2 ms
Sensor connection	differential
Switching frequency (max.)	500 Hz
Counter depth	16 bits
Isolation	500 V system/supply
Current consumption typ. (field side)	8 mA
Internal bit width	2 x 16 bits data
	2 x 8 bits control/status (optional)
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	58 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)