TRION-CNT

DEWETRON

- Isolated advanced counter module
- 80 MHz time base
- 2 MS/s per channel
- Event, waveform timing and sensor mode
- Programmable threshold and AC/DC coupling



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Module specifications

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Input channels	6 advanced counter	
Counter modes – Events – Frequency – Pulsewidth – Two pulse edge separation – Encoder	 Basic event counting 0.3 Hz to 4 MHz 12.5 ns to 53.687 s 12.5 ns to 53.687 s Encoder mode (X1, X2 and X4, up/down counting)	
Rated input voltage to earth according to EN 61010-2-30	33 V_{RMS}, 70 V_{DC}, 46,7 V_{PEAK}	
Compatibility	Single ended input with adjustable trigger level (TTL, LVTTL, CMOS, analog) For differential input use DIFF-CNT-LEMO-DB9F-01.	
Isolation voltage (channel-to-channel and channel-to-chassis)	500 V_{DC}	
Input coupling	DC or 500 mHz	
Input impedance (ground referenced)	1 MΩ / 5 pF	
Sampling rate	2 MS/s per channel	
Bandwidth (-3dB)	5 MHz	
Trigger adjustment range	0 to 50 V	
Trigger resolution	12 mV	
Trigger level accuracy	±20 mV ±1% of threshold/retrigger level	
Overvoltage protection	±100 V_{DC}	
Max. DC voltage @ AC coupling	±50 V_{DC}	
Counter resolution	32-bit, 12.5 ns	
Counter time base	80 MHz	
Time base accuracy	Within DEWE2 system	Typ. 10 ppm; max. 50 ppm
	Within DEWE3 system	Typ. 2 ppm; max. 10 ppm
Sensor power supply (not isolated)	5 V, max. 600 mA combined for all channels, not isolated 12 V, max. 600 mA combined for all channels, not isolated	
Typcial power consumption without sensor supply	5 W	
Weight	Approx. 240 g	

Tab. 81: TRION-CNT specifications