

- ▶ 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



## Module specifications

TRION-CNT specifications		
Input channels	6 advanced counter	
Counter modes	<ul style="list-style-type: none"> <li>– Events: Basic event counting</li> <li>– Frequency: 0.3 Hz to 4 MHz</li> <li>– Pulswidth: 12.5 ns to 53.687 s</li> <li>– Two pulse edge separation: 12.5 ns to 53.687 s</li> <li>– Encoder: Encoder mode (X1, X2 and X4, up/down counting)</li> </ul>	
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, LVTTTL, 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 and AC (1Hz) AC for input A only	
Input impedance (ground referenced)	$1 M\Omega / 5 pF$	
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	$\pm 20 mV \pm 1\%$ of threshold/retrigger level	
Overvoltage protection	$\pm 100 V_{DC}$	
Max. DC voltage @ AC coupling	$\pm 50 V_{DC}$	
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	
Typical power consumption without sensor supply	5 W	
Weight	Approx. 240 g	

Tab. 73: TRION-CNT specifications