TRION-CNT

DEWETRON

TRION-CNT

- 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

TRION-CNT specifications		
Input channels	6 advanced counter or 18 digital inputs (TRION-CNT-6-L1B)	
Counter modes – Waveform timing – Sensor modes – Event counting	 Period, frequency, pulse width duty cycle and edge separation Encoder (angle and linear) Basic event counting, gated counting, up/down counting and encoder mode (X1, X2 and X4)	
Rated input voltage to earth according to EN 61010-2-30	33 V_{RMS}, 70 V_{DC}, 46,7 V_{PEAK}	
Compatibility	Adjustable trigger levels	
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 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	
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
Max. input frequency	10 MHz	
Sensor power supply (per module)	5 V (600 mA) and 12 V (600 mA), not isolated	
Typcial power consumption without sensor supply	5 W	
Weight	Approx. 240 g	

Tab. 71: TRION-CNT specifications