▼ TY-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

Module specifications

TY-CNT specifi ca i ons		
Input channels	6 advanced counter	
Counter modes		
– Events	Basic event counting	
– Frequency	0.3 Hz to 4 MHz	
– Pulsewidth	12.5 ns to 53.687 s	
– Two pulse edge separation	12.5 ns to 53.687 s	
– Encoder	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 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, 12.5 ns	
Counter time base	80 MHz	
Time base accuracy	Within HT2 system	Typ. 10 ppm; max. 50 ppm
	Within HT3 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	