

- ▶ 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 or 18 digital inputs (TRION-CNT-6-L1B) | |
| Counter modes | <ul style="list-style-type: none"> – 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) | $1 M\Omega / 5 pF$ | |
| 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 | |
| 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 | |
| Typical power consumption without sensor supply | 5 W | |
| Weight | Approx. 240 g | |

Tab. 73: TRION-CNT specifications