Sixnet

EtherTRAK™ HIGH-SPEED COUNTERS

Select the ET-8CNT when you need pulse accumulators, pulse rate, or position information over an Ethernet network.

PRODUCT HIGHLIGHTS

- Count rates to 50 KHz with 32-bit results
- Measure pulses from milliseconds to a minute
- Direct position detection from quadrature encoders
- Individually isolated inputs for best noise immunity
- Count inputs also report as discrete inputs
- Support for hardware gating and software resets

PERFORMANCE SPECIFICATIONS

- 8 counters
- Count mode performance: guaranteed count rate 50 KHz
- 32 bits Count resolution
- Rate (frequency) mode performance:
    Maximum input rate 50,000 per sec
    Shortest measurement period 10 mS
    Longest measurement period 1 min
- Position mode performance:
    Maximum position axis (2channels/axis) 4
    Maximum pulses per second 25,000
    Maximum quadrature states per second 100,000
    Position resolution 32 bits
- Input performance:
    Guaranteed count input voltage 4 Volts
    Maximum count input voltage 30 Volts
    Guaranteed off input voltage 1.5 Volts
    Nominal count input current 8 mA
- Required supply voltage 10-30 VDC (1.4 watt typical)
- Operating temperature range -30 to 70° C
- Storage temperature range -40 to 85° C
- Humidity (non-condensing) 5 to 95%
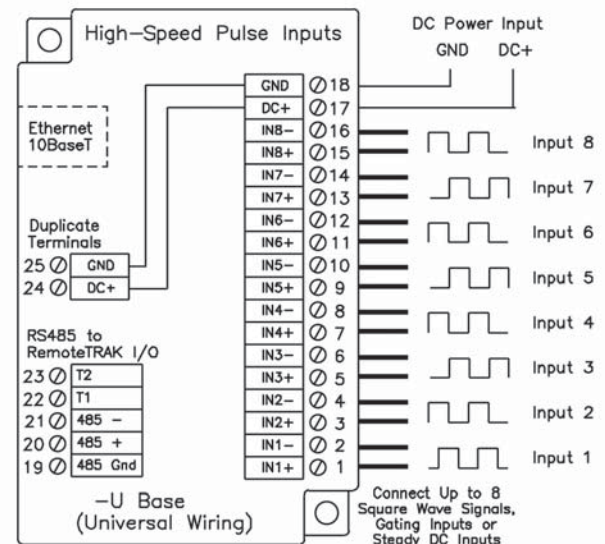
RS485 PORT FOR I/O EXPANSION

- 32 Max. RS485 stations (up to 512 I/O)
- Baud rate: 38,400 bps
- Recommended distance of up to 0.5 mile
- Protocol: Sixnet "I/O for Windows", Modbus ASCII & RTU
- Isolation (from Ethernet port) 1200 Volts RMS 1 minute

Note: A pair of counter channels can be combined to make a 32-bit up/down counter or accumulator.
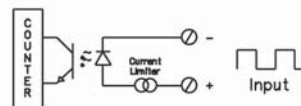

Typical Count/Rate Input Circuit

Typical Position Input Circuit

ORDERING INFORMATION

ET-8CNT-U	8 High-Speed Counters w/base
ET-8CNT-M	Replacement module only

All specifications are subject to change. Consult factory for latest info.

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