

# 5410

## High Speed Counter/Accumulator

### Features:

- Optically isolated
- 32 bit count range
- Wide input range 3VDC - 28VDC
- Guaranteed no missed counts to 10KHz
- Counts retained during power outage
- Self clearing or accumulating
- Accepts quadrature phase inputs
- 3 year warranty on parts and labor



### Specifications

Counter Input Points	4
Count Length	32 bits, range is 0 to 4,294,967,295
Over-Voltage Protection	Transient suppressor on each input
Input Voltage Range	Typical operating inputs 5 to 24V, 3V minimum, 28V maximum
Input Current	8mA typical, 13mA maximum
Input Logic Level	OFF to ON threshold is typically 2V
Maximum Input Frequency	10kHz with filters off, 5 kHz with quadrature counters, 60Hz with de-bounce filters on
Maximum Pulse High Width	50 microseconds ( $\mu$ s), 100 $\mu$ s with quadrature counters 8.3 milliseconds with de-bounce filters
Minimum Pulse Low Width	50 microseconds ( $\mu$ s), 100 $\mu$ s with quadrature counters 8.3 milliseconds with de-bounce filters
Isolation	500VAC input to input, 500VAC input to logic circuit
Addressing	DIP switch configurable
Visual Indicators	4 red LEDs LED on time stretched for easy viewing controlled for power reduction
Terminations	8 pole, removable terminal block, 12 to 22 AWG, 15 amp contacts
Power Requirements	5V @ 35mA with all LEDs on, 5V @ 15mA with LEDs disabled
Dimensions	4.25 inch [108 mm] wide, 4.625 inch [118 mm] high, 1.75 inch [44 mm] deep
Mounting	7.5 x 35 DIN rail
Packaging	Corrosion resistant zinc plated steel with black enamel paint
Environment	5% RH to 95% RH, non-condensing, -40°C/F to 60°C /140°F
Safety	Class 1, Division 2 for use in hazardous locations
Part Number	297149