



## GT-5102

High speed counter

2 channels

Encoder voltage: 5 VDC

Up to 750 kHz

10pt removable terminal block

## Facts

### General description

Article number	100-8029
Warranty	Up to 2 years
Article status	Active
Shock operating	IEC 60068-2-27 (15G)
Vibration resistance	Sine vibration (based on IEC 60068-2-6), 5 ~ 25 Hz: $\pm 1.6\text{mm}$ , 25 ~ 300 Hz: 4G, Sweep rate: 1 octave/min., 20 cycles, Random vibration (based on IEC 60068-2-64), 10 ~ 40 Hz: $0.0125\text{g}^2/\text{Hz}$ , 40 ~ 100 Hz: $0.0125 \rightarrow 0.002\text{g}^2/\text{Hz}$ , 100 ~ 500 Hz: $0.002 \text{g}^2/\text{Hz}$ , 500 ~ 2000 Hz: $0.002 \rightarrow 1.3 \times 10^{-4}\text{g}^2/\text{Hz}$ , Test time: 1hrs for each test
Industrial emissions	EN 61000-6-4/A11: 2011
Industrial immunity	EN 61000-6-2: 2019
Product certifications	Horisontal, Vertical CE, UL, cUL, FCC, RoHS, China RoHS, Reach
Power dissipation	Max. 70 mA @ 5 VDC
Isolation	I/O to Logic: Photocoupler isolation, I/O to Field Power: Non-Isolation
Field power	Not used. Field power bypassed to next expansion module.
Weight	60 g
Module size	12x99x70 mm

### Environmental

Mounting	35mm DIN rail
Operating temperature	-20 ~ 60°C
Storage temperature	-40 ~ 85°C
UL temperature	-20 ~ 60°C
Relative humidity	5 ~ 90% non-condensing

### Communication module specification

Transfer channels	2 Channel, Encoder, High Speed Counter, Frequency measurement Pulse width & Period measurement
-------------------	--

## Counter mode specifications

Counter size	32bit-wide/channel
Counting mode	1-Input Mode: Up, Down, 2-Input Mode: Encoder 4x, Up/Inhibit, Up/Reset, Down/Inhibit, Down/Reset, UP/Down, Clock/Direction,, Frequency Measurement,, Pulse Width & Period measurement
Indicators	4 Green Terminal Input LEDs
Input current	13 mA @ 5.2 VDC
Input frequency	0~300 kHz Count Mode, 0~750 kHz Encoder Mode
Input voltage	5 VDC Nominal (maximum 5.2 VDC)
Max OFF state voltage	≤2.0 VDC
Min ON state voltage	≥2.1 VDC
Number of channels	2 Channel, Encoder, High Speed Counter, Frequency measurement Pulse width & Period measurement

### People & Technology. Connected.

We are a people company. Our experienced, skilled and passionate people empower you to meet your challenges through best-in-class, user-friendly solutions. We are a technology company. We help you optimize processes through our software, hardware and services, and through our support. Connecting people and technologies gives you the means to accomplish your goals and ambitions, and gain a competitive edge in today's digitalized world.

Beijer Electronics, Inc.  
850 South 3600 West, Suite C  
Salt Lake City, UT 84104  
USA

Sales: +1 801-708-6631 Support: +1 801-708-6690 (tel:Sales: +1 801-708-6631 Support: +1 801-708-6690)  
[sales.americas@beijerelectronics.com](mailto:sales.americas@beijerelectronics.com) (mailto:sales.americas@beijerelectronics.com)