

Counter Module

GT1-CT01

A Counter Module Enabling Encoder Input

- High-speed pulse with counting speed of 50 kHz.
- Counting can be set to a multiplication factor of 1 or 4.
- Wide range of measurement: -8,388,608 to +8,388,607.
- One external input and two external outputs are available.
- Dimensions: 110×60×65 (W×H×D).
- DIN track mounting.



Ordering Information

I/O classification	External I/O points	Terminal	Operating mode	Model
Counter Module	Inputs: 1 Outputs: 2	Terminal block	Linear counter	GT1-CT01

Note: A communications cable, GCN1-004, is included with each module.

Specifications

■ Output

Output current	0.5 A per point max.	
Residual voltage	1.2 V max. (0.5 VDC, between each output terminal and ground)	
Leakage current	0.1 mA max. (24 VDC, between each output terminal and G)	
Leakage current	0.1 mA max. (24 VDC, between each output terminal and G)	
ON delay time	0.5 ms max.	
OFF delay time	1.5 ms max.	
Number of circuits	2	

■ Ratings

Current consumption	90 mA max.	
Connection distance	Total length: 3 m Maximum length between Units: 1 m	
I/O power supply voltage	20.4 to 26.5 VDC (24 VDC -15%/+10%)	
Ambient temperature	-10°C to 55°C	
Ambient humidity	Operating: 25% to 85% (with no condensation)	
Weight	Approx. 250 g	
Dimensions	110 60 65 (W H D)	

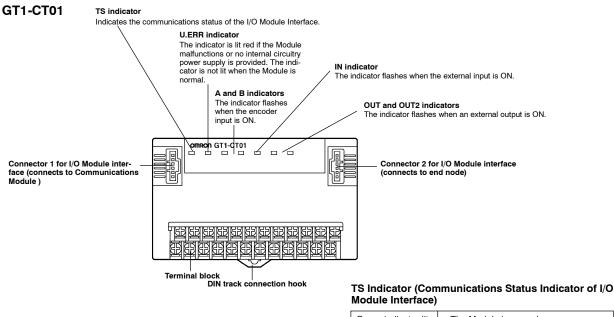
■ Characteristics

Number of counters			1
Operating mode			Linear counter
Count input	Input signal		Encoder input (A, B, Z)
	Signal level		24 VDC
	Input type		Differential phase pulse input Pulse and direction input
	Maximum counting speed		50 kHz (kcps)
Counting range Other		ange	-8,388,608 to +8,388,607
			Differential phase pulse input can be set to a multiplication factor of 1 or 4.
External input Input signal		I	External input (IN)
	Signal level		24 VDC
External output Output			2 external outputs (OUT1 and OUT2)
	Maximum switching capacity		24 VDC 0.5 A
Occupied words IN OUT		IN	3 words
		OUT	3 words

■ Encoders

Output type	Open-collector output	
Power supply voltage	24 VDC	
Models	E6B2-CWZ6C E6H-CWZ6C	

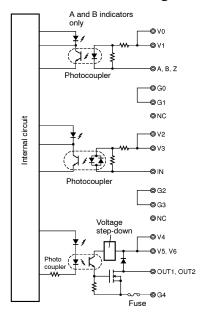
Nomenclature -



Green indicator lit	The Module is normal.	
Red indicator lit	The I/O Module interface has an error.	
Not lit	No power is supplied to the Module or the Module is being initialized.	

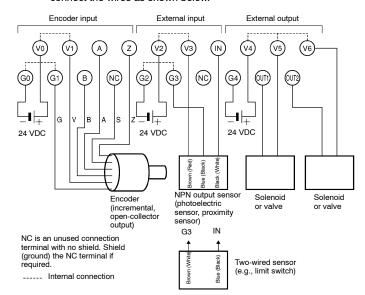
Operation -

■ Internal Circuit Configuration



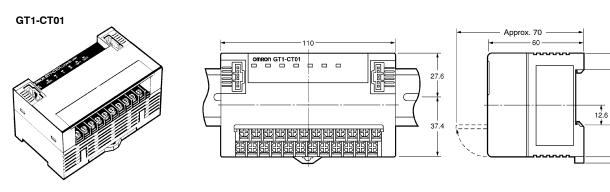
■ Wiring

Be sure to connect Molex connectors for analog output wires and connect the wires as shown below.



Dimensions

Note: All units are in millimeters unless otherwise indicated.



 ${\bf NOTE: DIMENSIONS\ SHOWN\ ARE\ IN\ MILLIMETERS.\ To\ convert\ millimeters\ to\ inches\ divide\ by\ 25.4.}$

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