

Relay Output Modules

GT1-ROS16/ROP08

Relay Output Module Compatible with MULTIPLE I/O TERMINAL

- 8- and 16-point relay output models are available.
- Dimensions of 8-point model: 160 x 60 x 65 (W x H x D) Dimensions of 16-point model: 160 x 60 x 65 (W x H x D)
- DIN track mounting.





Ordering Information

I/O classification	Relay model	I/O points	Terminal	Power supply voltage	I/O specification	Model
Relay output	G6D-1A (24 VDC)	16	M3 terminal	24 VDC	2 A/SPST-NO	GT1-ROS16
	G2R-1-SN (24 VDC)	8	block		5 A/SPST-NO	GT1-ROP08

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

Specifications -

■ Characteristics

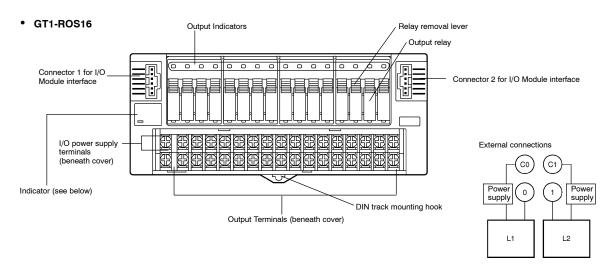
I/O power supply voltage	24 VDC +10%/-15%					
Current consumption	I/O	Module interface	I/C	I/O power supply		
(See note.)	GT1-ROP08	40 mA max.	GT1-ROP08	350 mA max.		
	GT1-ROS16	50 mA max.	GT1-ROS16	250 mA max.		
Connecting Units	8					
Dielectric strength	500 VAC (between isolated circuits)					
Noise immunity	±1,500 V (p-p) for 10 minutes with a pulse width of 0.1 to 1 μs					
Vibration resistance	10 to 55 Hz, 1.0-mm double amplitude or 70 m/s ²					
Shock resistance	200 m/s ²					
Mounting method	35-mm DIN track mounting					
Mounting strength	No damage when 100 N pull load was applied in all directions					
Terminal strength	No damage when 100 N pull load was applied					
Screw tightening torque	0.3 to 0.5 N • m					
Ambient temperature	Operating: -10°C to 55°C (with no icing or condensation) Storage: -25°C to 65°C (with no icing or condensation)					
Ambient humidity	Operating: 25% to 85%					

Note: The above current consumption is a value with all the points turned ON including the current consumption of the relay coils.

■ Relay Output Specifications

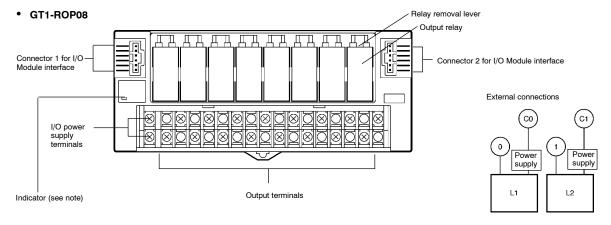
Item	G6D-1A	G2R-1-SN	
Maximum contact current	2 A	5 A	
Minimum applicable load (reference values)	5 VDC, 10 mA	5 VDC, 100 mA	
Electrical life expectancy	100,000 operations min. with switching frequency of 1,800 operations per hour (at ambient temperature of 23°C with rated load)		
Mechanical life expectancy	20,000,000 operations min. with switching frequency of 18,000 operations per hour (at ambient temperature of 23°C with rated load)		

Nomenclature -



Indicators

Indicator	Display	Color	Meaning
TS	Lit	Green	The Module is normal.
	Lit	Red	The I/O Module interface has an error.
	Not lit		No power is supplied to the Module or the Module is being initialized.

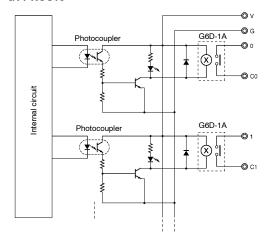


Note: The indicators for the GT1-ROP08 are the same as for the GT1-ROS16.

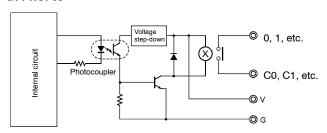
Operation -

■ Internal Circuit Configuration

GT1-ROS16

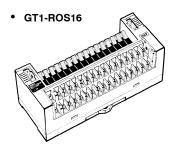


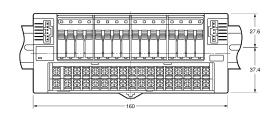
GT1-ROP08

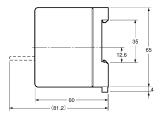


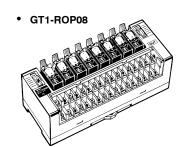
Dimensions

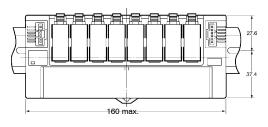
Note: All units are in millimeters unless otherwise indicated.

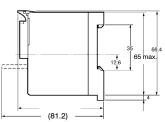








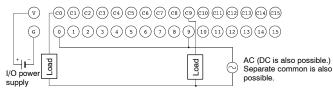




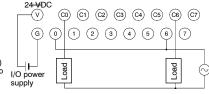
Installation

■ Wiring

GT1-ROS16



GT1-ROP08



AC (DC is also possible.) Separate common is also possible.

NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.



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