

Relay Output Units

GT1-ROS16/ROP08/FOP08**Relay Output Unit Compatible with MULTIPLE I/O TERMINAL**

- 8- and 16-point relay output models are available.
- Equipped with 8-point SSRs.
- DIN track mounting.

**Ordering Information**

I/O classification	I/O points	I/O connections	Power supply voltage	I/O specification	Model
Relay output	16	M3 terminal block	24 VDC	2 A, SPST-NO	GT1-ROS16
	8			5 A, SPST-NO	GT1-ROP08
SSR	8			--	GT1-FOP08

General Specifications

I/O power supply voltage	20.4 to 26.4 VDC (24 VDC -15%/+10%)			
Current consumption *	I/O Unit interface		I/O power supply	
	GT1-ROP08	40 mA max.	GT1-ROP08	350 mA max.
	GT1-FOP08		GT1-FOP08	
	GT1-ROS16	50 mA max.	GT1-ROS16	250 mA max.
Connectable Units	8			
Dielectric strength	500 VAC (between isolated circuits)			
Noise immunity	Conforms to IEC 61000-4-4, 2 kV (power line)			
Vibration resistance	10 to 55 Hz, 1.0-mm double amplitude or 70 m/s ²			
Shock resistance	200 m/s ²			
Mounting method	DIN 35 mm-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 operating temperature	-10°C to 55°C			
Ambient operating humidity	25% to 85% (with no icing or condensation)			
Ambient storage temperature	-25°C to 65°C			
Accessories	I/O Unit Connecting Cable (40 mm)			

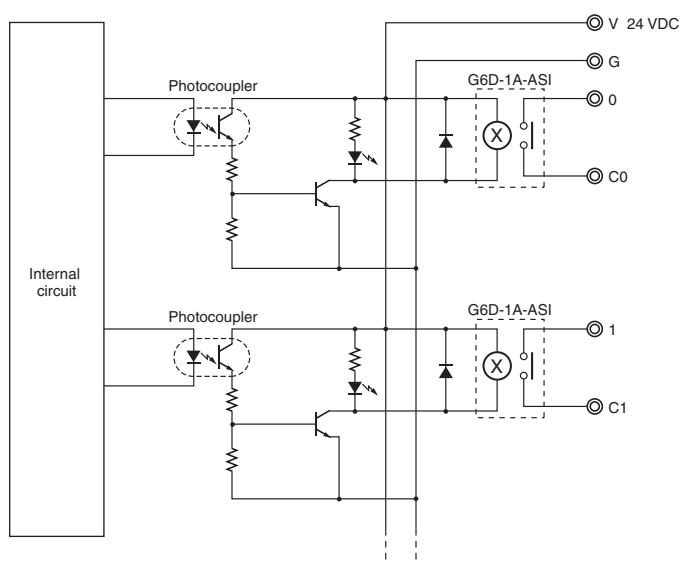
* The above current consumption is a value with all the points turned ON including the current consumption of the relay coils.

Relay Output Specifications

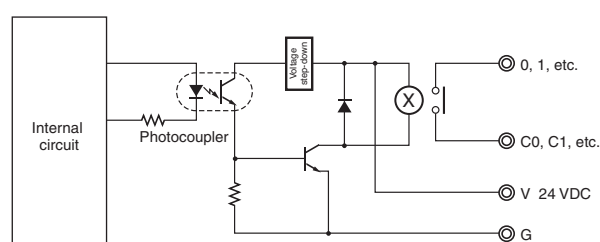
Item	Model	GT1-ROS16	GT1-ROP08	GT1-FOP08
Relay model		G6D-1A-ASI (24 VDC)	G2R-1-SN (24 VDC)	G3R-ODX02SH-UTU (5 to 24 VDC)
Maximum contact current		2 A	5 A	0.01 to 1.5 A
Minimum applicable load (reference values)		5 VDC, 10 mA	5 VDC, 100 mA	4 to 48 VDC
Electrical life expectancy		100,000 operations min. 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)		--

Internal Circuit Configuration

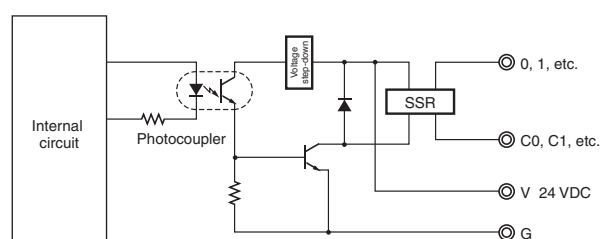
GT1-ROS16



GT1-ROP08



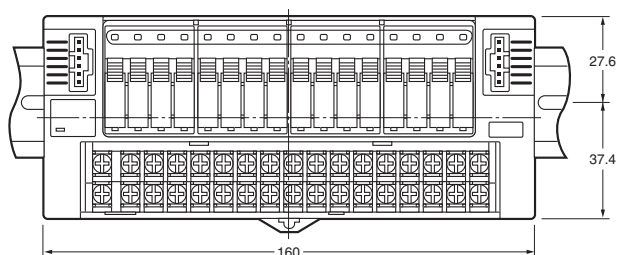
GT1-FOP08



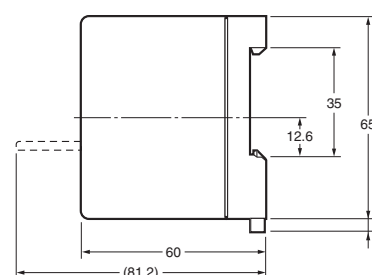
Dimensions

(Unit: mm)

GT1-ROS16

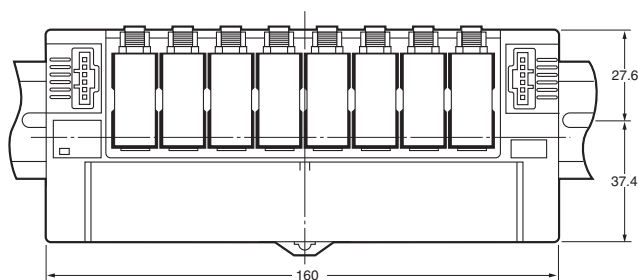


Note: Accessory cable included.

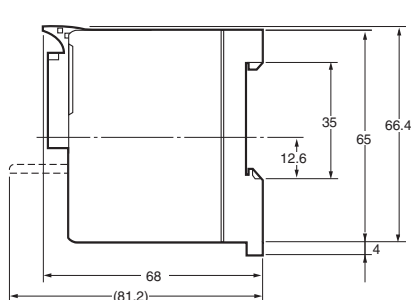


GT1-ROP08

GT1-FOP08

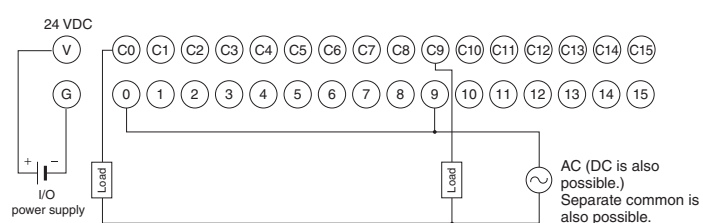


Note: Accessory cable included.

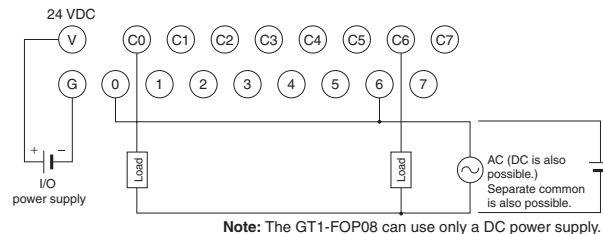


Wiring Diagrams

GT1-ROS16



GT1-ROP08/GT1-FOP08



Note: The GT1-FOP08 can use only a DC power supply.