## OMRON

# Solid State Relay

# I/O SSR Used as Interface between Logic Circuitry and Load

- A variety of AC/DC input and output modules classified by color.
- Operation can be monitored easily through an LED indicator.
- Dielectric strength of 4,000 V between input and output terminals.
- Certified by UL and CSA.



# **Ordering Information**

### **Input Modules**

Isolation	Indicator	Logic level		Rated input	Model
		Supply voltage	Supply current	voltage	
Photocoupler	Yes	4 to 32 VDC	25 mA	100 to 240 VAC	G3TB-IAZR02P-US
				4 to 24 VDC	G3TB-IDZR02P-US

### **Output Modules**

Isolation	Zero cross function	Indicator	Rated output voltage (Applicable output load)	Rated input voltage	Model
Photocoupler	Yes	Yes	3 A at 100 to 240 VAC	5 to 24 VDC	G3TB-OA203PZ-US
		No	(3 A at 75 to 264 VAC)	4 to 24 VDC	G3TB-OA203PZM-US
	No	Yes		5 to 24 VDC	G3TB-OA203PL-US
		No		4 to 24 VDC	G3TB-OA203PLM-US
		Yes	3 A at 5 to 48 VDC	5 to 24 VDC	G3TB-ODX03P-US
		No	(3 A at 4 to 60 VAC)	4 to 24 VDC	G3TB-ODX03PM-US
			5 to 24 VDC	G3TB-OD201P-US	
		No	(1.5 A at 40 to 200 VDC)	4 to 24 VDC	G3TB-OD201PM-US

Note: When ordering, specify the rated input voltage.

# **Specifications**

# ■ Ratings (at an Ambient Temperature of 25°C)

### Input Module

#### Input

Model	Rated voltage	Operating voltage	Input current	Voltage level	
				Must operate voltage	Must release voltage
G3TB-IAZR02P-US	100 to 240 VAC	80 to 264 VDC	5 mA max.	80 VAC max.	10 VAC min.
G3TB-IDZR02P-US	4 to 24 VDC	3 to 32 VDC		3 VDC max.	1 VDC min.

#### Output

Model	Logic level supply voltage	Output breakdown voltage	Output current
G3TB-IAZR02P-US	4 to 32 VDC	32 VDC max.	25 mA max.
G3TB-IDZR02P-US			

## **Output Module**

#### Input

Model	Rated voltage	Operating voltage	Input current	Voltage level	
				Must operate voltage	Must release voltage
G3TB-OA203PZ-US	5 to 24 VDC	4 to 32 VDC	5 mA max.	4 VDC max.	1 VDC min.
G3TB-OA203PZM-US	4 to 24 VDC	3 to 32 VDC		3 VDC max.	
G3TB-OA203PL-US	5 to 24 VDC	4 to 32 VDC		4 VDC max.	
G3TB-OA203PLM-US	4 to 24 VDC	3 to 32 VDC		3 VDC max.	
G3TB-ODX03P-US	5 to 24 VDC	4 to 32 VDC		4 VDC max.	
G3TB-ODX03PM-US	4 to 24 VDC	3 to 32 VDC		3 VDC max.	
G3TB-OD201P-US	5 to 24 VDC	4 to 32 VDC		4 VDC max.	
G3TB-OD201PM-US	4 to 24 VDC	3 to 32 VDC		3 VDC max.	

#### Output

Model	Applicable load					
	Rated load voltage	Load voltage range	Load current (See note.)	Inrush current		
G3TB-OA203PZ-US	100 to 240 VAC	75 to 264 VAC	0.05 to 3 A	45 A (60 Hz, 1 cycle)		
G3TB-OA203PZM-US						
G3TB-OA203PL-US						
G3TB-OA203PLM-US						
G3TB-ODX03P-US	5 to 48 VDC	4 to 60 VDC	0.01 to 3 A	18 A (10 ms)		
G3TB-ODX03PM-US						
G3TB-OD201P-US	48 to 200 VDC	40 to 200 VDC	0.01 to 1.5 A	12 A (10 ms)		
G3TB-OD201PM-US						

Note: The minimum current value is measured at 10°C min.

## ■ Characteristics

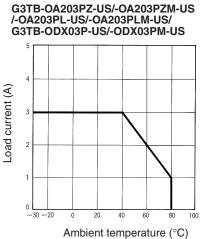
## Input Module

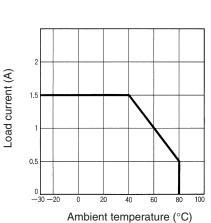
Item	G3TB-IAZR02P-US	G3TB-IDZR02P-US				
Operate time	20 ms max.	1 ms max.				
Release time	20 ms max.	1 ms max.				
Output ON voltage drop	0.4 V max.					
Leakage current	100 μA max.					
Insulation resistance	100 MΩ min. (at 500 VDC)					
Dielectric strength	4,000 VAC, 50/60 Hz for 1 min between input and o	4,000 VAC, 50/60 Hz for 1 min between input and output				
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm single amplitude	Alfunction: 10 to 55 Hz, 1.5-mm single amplitude				
Shock resistance	Malfunction: 1,000 m/s <sup>2</sup>	Malfunction: 1,000 m/s <sup>2</sup>				
Ambient temperature	Operating: -30°C to 80°C (with no icing or condensation) Storage: -30°C to 100°C (with no icing or condensation)					
Ambient humidity	Operating: 45% to 85%					
Certified standards	UL File No. E41515/CSA File No. LR35535/TÜV R90381 (VDE0806)					
Weight	Approx. 22 g					

## **Output Module**

Item	G3TB- OA203PZ-US	G3TB- OA203PZM-US	G3TB-OA 203PL-US	G3TB-OA 203PLM-US	G3TB- ODX03P-US	G3TB- ODX03PM-US	G3TB-OD 201P-US	G3TB-OD 201PM-US	
Operate time	1/2 of load power 1 ms max.	source cycle +	1 ms max.		0.5 ms max.				
Release time	1/2 of load power	source cycle + 1	ms max.		2 ms max.				
Output ON voltage drop	1.6 V max.				2.5 V max.				
Leakage current	5 mA max. (at 20	0 VAC)			1 mA max.				
Insulation resistance	100 M $\Omega$ min. (at §	500 VDC)							
Dielectric strength	4,000 VAC, 50/60	Hz for 1 min betw	ween input an	d output					
Vibration resistance	Malfunction: 10 to	55 Hz, 1.5-mm s	single amplitu	de					
Shock resistance	Malfunction: 1,00	0 m/s <sup>2</sup>							
Ambient temperature									
Ambient humidity	Operating: 45% to	Operating: 45% to 85%							
Certified standards	UL File No. E645	L File No. E64562/CSA File No. LR35535/TÜV R90381 (VDE0806)							
Weight	Approx. 32 g								

## Load Current vs. Ambient Temperature Characteristics





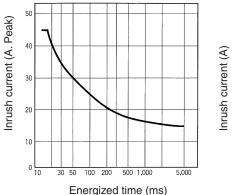
G3TB-OD201P-US/-OD201PM-US

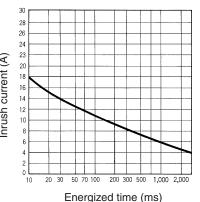
#### One Cycle Surge Current: Non-repetitive

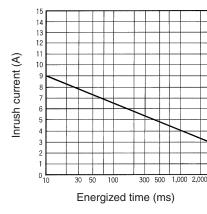
Non-repetitive (Keep the inrush current to half the rated value if it occurs repetitively.)

G3TB-OA203PZ-US/-OA203PZM-US/ -OA203PL-US/-OA203PLM-US

#### G3TB-ODX03P-US/-ODX03PM-US







G3TB-OD201P-US/-OD201PM-US

## ■ Circuit Configuration

Туре	Model	Case color	Indicator	Circuit
AC input	G3TB-IAZR02P-US	Yellow	Yes	Rectification circuit Constant- current circuit
DC input	G3TB-IDZR02P-US	White	Yes	Constant- current circuit
AC output	G3TB-OA203PZ-US G3TB-OA203PL-US	Black	Yes	Constant- current circuit
	G3TB-OA203PZM-US G3TB-OA203PLM-US		No	
DC output	G3TB-ODX03P-US G3TB-OD201P-US	Red	Yes	Constant-
	G3TB-ODX03PM-US G3TB-OD201PM-US		No	

Example 2. G3TB-I

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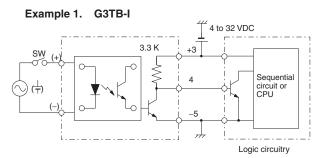
Load

diode

Example: Relay 4 to 32 VDC with built-in inrush absorption

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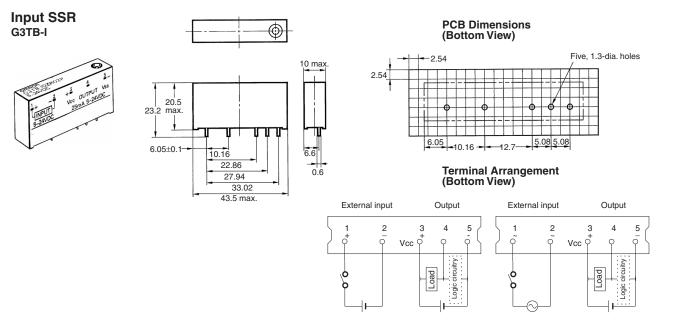
### Example of Logic Output Circuit



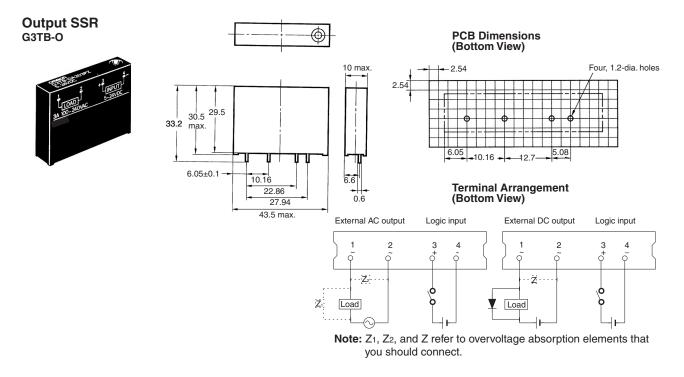
Note: AC- and DC-input versions are available.

# Dimensions

Note: All units are in millimeters unless otherwise indicated.



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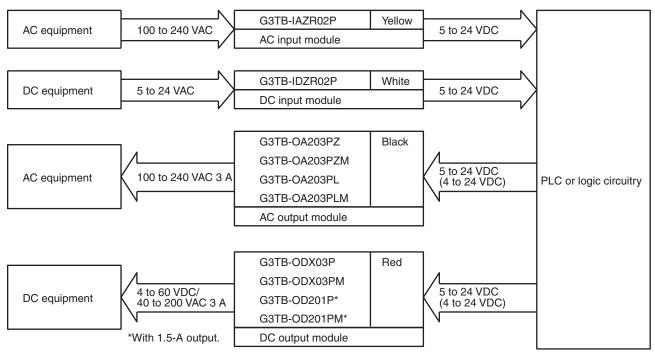


## Precautions for Correct Use

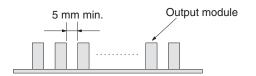
Please observe the following precautions to prevent failure to operate, malfunction, or undesirable effect on product performance.

#### G3TB

I/O classification by the color is as follows:



When mounting more than one output module, make a distance of 5 mm minimum between adjacent SSRs. Up to 16-point, 3-A load switching is possible



### **Connection**

With the SSR for DC switching, the load can be connected to either positive or negative output terminal of the SSR.

## **Protective Component**

Since the SSR does not incorporate an overvoltage absorption component, be sure to connect an overvoltage absorption component when using the SSR under an inductive load.

## OMRON

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  - (ii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations

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#### Solid State Relav G3TB