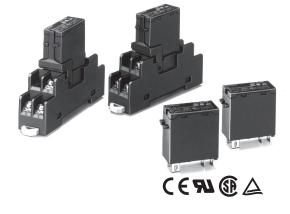
OMRON

Solid State Relay

Compact SSRs for I/O Interface with High Dielectric Strength Requirements

- High-speed models with optimum input ratings for a variety of sensors are available.
- Input Modules and Output Modules that have the same form-factor as the G2R.
- Using a coupler approved by VDE 0884 and assuring an I/O dielectric strength of 4 kV.
- Incorporating an easy-to-see monitoring indicator.
- Approved by UL, CSA, and TÜV. ("-UTU" models)



Ordering Information

To Order: Select the part number and add the desired coil voltage rating, (e.g., G3R-IAZR1SN-DC5)

Input Module

Isolation	Indicator	Response speed	Logic level		Rated input	Model
			Supply voltage	Supply current	voltage	
Photocoupler	Yes	—	4 to 32 VDC	0.1 to 100 mA	100 to 240 VAC	G3R-IAZR1SN
		High-speed	-		5 VDC	G3R-IDZR1SN
		(1 kHz)			12 to 24 VDC	
		Low-speed			5 VDC	G3R-IDZR1SN-1
		(10 Hz)			12 to 24 VDC	

■ Output Module

Isolation	Indicator	Zero cross function	Rated output load	Rated input voltage	Model
Phototriac	Yes	Yes	2 A at 100 to 240 VAC	5 to 24 VDC	G3R-OA202SZN
		No			G3R-OA202SLN
Photocoupler		—	2 A at 5 to 48 VDC		G3R-ODX02SN
			1.5 A at 48 to 200 VDC		G3R-OD201SN

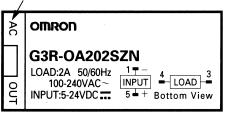
Note: When ordering a UL, CSA and EN (TÜV) approved model, add "-UTU" to the model number as shown below: Example: G3R-OA202SZN-*UTU* DC5-24.

I/O Indication

 $\ensuremath{\text{I/O}}$ module classification and $\ensuremath{\text{AC/DC}}$ use are indicated on the mark affixed to the top of the product.

Mark indication	Specification
AC IN	Input module, AC input
DC IN	Input module, DC input
AC OUT	Output module, AC output
DC OUT	Output module, DC output

Mark attached to the top of the product



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

Input Module

Input

Model	Rated voltage	Operating voltage	Input current	Must operate voltage	Must release voltage
G3R-IAZR1SN	100 to 240 VAC	60 to 264 VAC	15 mA max.	60 VAC max.	20 VAC min.
G3R-IDZR1SN	5 VDC	4 to 6 VDC	8 mA max.	4 VDC max.	1 VDC min.
	12 to 24 VDC	6.6 to 32 VDC	7	6.6 VDC max.	3.6 VDC min.
G3R-IDZR1SN-1	5 VDC	4 to 6 VDC	7	4 VDC max.	1 VDC min.
	12 to 24 VDC	6.6 to 32 VDC		6.6 VDC max.	3.6 VDC min.

Output

Model	Logic level supply voltage	Logic level supply current
G3R-IAZR1SN	4 to 32 VDC	0.1 to 100 mA
G3R-IDZR1SN		
G3R-IDZR1SN-1		

Output Module

Input

Model	Rated voltage	Operating voltage	Input current	Must operate voltage	Must release voltage
G3R-OA202SZN	5 to 24 VDC	4 to 32 VDC	15 mA max.	4 VDC max.	1 VDC min.
G3R-OA202SLN			(at 25°C)		
G3R-ODX02SN			8 mA max.		
G3R-OD201SN					

Output

Model	Rated load voltage	Load voltage range	Load current (see note)	Inrush current
G3R-OA202SZN	100 to 240 VAC	75 to 264 VAC	0.05 to 2 A	30 A (60 Hz, 1 cycle)
G3R-OA202SLN				
G3R-ODX02SN	5 to 48 VDC	4 to 60 VDC	0.01 to 2 A	8 A (10 ms)
G3R-OD201SN	48 to 200 VDC	40 to 200 VDC	0.01 to 1.5 A	8 A (10 ms)

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

Characteristics

■ Input Module

Item	G3R-IAZR1SN	G3R-IDZR1SN	G3R-IDZR1SN-1			
Operate time	20 ms max.	0.1 ms max.	15 ms max.			
Release time	20 ms max.	0.1 ms max.	15 ms max.			
Response frequency	10 Hz	1 kHz	10 Hz			
Output ON voltage drop	1.6 V max.					
Leakage current	5 μA max.					
Insulation resistance	100 M Ω min. between inpu	t and output				
Dielectric strength	4,000 VAC, 50/60 Hz for 1 r	4,000 VAC, 50/60 Hz for 1 min. between input and output				
Vibration resistance	10 to 55 Hz, 1.5-mm double	10 to 55 Hz, 1.5-mm double amplitude				
Shock resistance	1,000 m/s ² {approx. 100G}	1,000 m/s ² {approx. 100G}				
Ambient temperature		Operating: -30°C to 80°C (with no icing) Storage: -30°C to 100°C (with no icing)				
Approved standards	UL File No. E64562 CSA File No. LR35535 TÜV File No. R9650094 (El					
Ambient humidity	Operating: 45% to 85%	Operating: 45% to 85%				
Weight	Approx. 18 g	Approx. 18 g				

■ Output Module

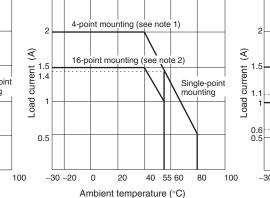
Item	G3R-OA202SZN	G3R-OA202SLN	G3R-ODX02SN	G3R-OA201SN		
Operate time	1/2 of load power source cy	1/2 of load power source cycle + 1 ms max.		1 ms max.		
Release time	1/2 of load power source cy	cle + 1 ms max.	2 ms max.			
Response frequency	20 Hz		100 Hz			
Output ON voltage drop	1.6 V max.			2.5 V max.		
Leakage current	1.5 mA max.		1 mA max.	•		
Insulation resistance	100 M Ω min. between input	and output				
Dielectric strength	4,000 VAC, 50/60 Hz for 1 n	nin. between input and out	put			
Vibration resistance	10 to 55 Hz, 1.5-mm double	10 to 55 Hz, 1.5-mm double amplitude				
Shock resistance	1,000 m/s ² {approx. 100G}					
Ambient temperature	Operating: -30°C to 80°C (with no icing) Storage: -30°C to 100°C (with no icing)					
Approved standards	UL File No. E64562 CSA File No. LR35535 TÜV File No. R9650094 (EN60950)					
Ambient humidity	Operating: 45% to 85%					
Weight	Approx. 18 g					

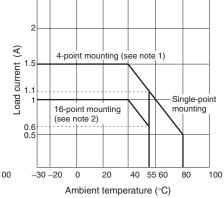
Engineering Data

Load Current vs. Ambient Temperature

G3R-OA202SZN(-UTU)/OA202SLN(-UTU) G3R-ODX02SN(-UTU) (4 to 60 VDC) G3R-OD201SN(-UTU) (40 to 200 VAC)

4-point mounting (see note 1) 2 Load current (A) 16-point mounting (see note 2) 1.5 1.4 Single-point mounting 0.7 0.5 20 30 40 55 60 -30 -20 0 80 Ambient temperature (°C)



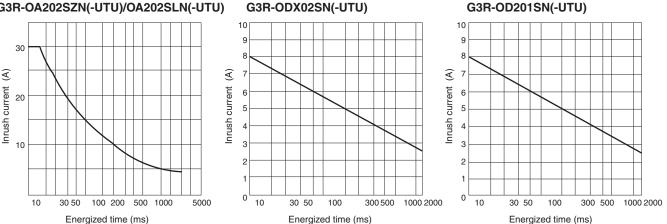


Note: 1. When G730-Z0M04-B is mounted. 2. When G70A-Z0C16 is mounted.

Inrush Current Resistivity

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

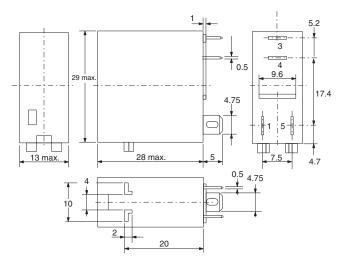
G3R-OA202SZN(-UTU)/OA202SLN(-UTU)

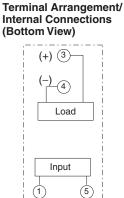


Dimensions

Unit: mm (inch)

■G3R





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G3R I/O Relay

54 58.5 *

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P2RF-05 S

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■ Connecting Sockets

71.5

8

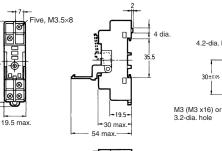
14.5 max

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85.5

P2RF-05

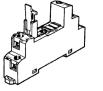


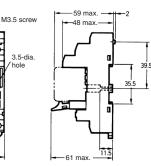


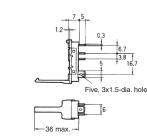


P2RF-05-E

P2R-05A



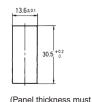




39.5±0.1 M3 or 3.5-dia, hole

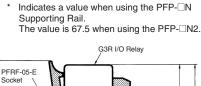
4.2-dia. hole

30±



be 1.6 to 2.0 mm.)

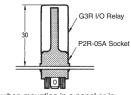
(For use when mounting in a panel or in the P2R-P mounting plate $) \label{eq:product}$



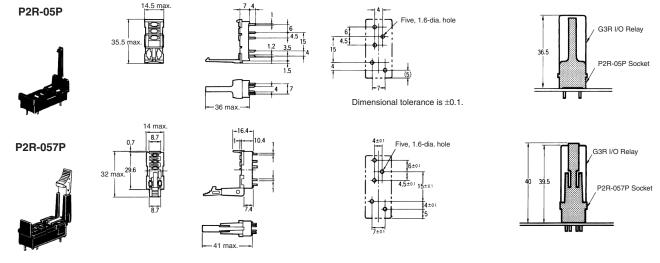
U - 8



- Indicates a value when using the PFP-□N Supporting Rail with the P2RF-05-E The value is 71.5 when using the PFP-□N2.
- Indicates a value when using the PFP-□N Supporting Rail with the P2RF-08-E The value is 75.5 when using the PFP-□N2. ***

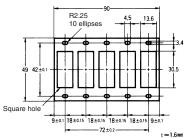


OMRON



Socket Mounting Plate

Use the P2R-P Socket Mounting Plate when arranging several P2R-05A Sockets in a row. **P2R-P**



■ Approvals

UL Recognized (File No. E64562) / CSA Certified (File No. LR35535)

Model G3R-	Module type	Rating
IAZR1SN	Input	100 to 240 VAC
IDZR1SN	Input	5 VDC, 12 to 24 VDC
IDZR1SN-1	Input	5 VDC, 12 to 24 VDC
OA202SZN	Output	5 to 24 VDC
OA202SLN	Output	5 to 24 VDC
ODX02SN	Output	5 to 24 VDC
OD201SN	Output	5 to 24 VDC

Model G3R-	Module type	Output rating	
IAZR1SN	Input	32 VDC, 100 mA (General Purpose)	
IDZR1SN	Input	32 VDC, 100 mA (General Purpose)	
IDZR1SN-1	Input	32 VDC, 100 mA (General Purpose)	
OA202SZN	Output	264 VAC, 2 A (General Purpose)	
		264 VAC, 1 A (Tungsten)	
		264 VAC, 1 A FLA, 6 A LRA	
OA202SLN	Output	264 VAC, 2 A (General Purpose)	
		264 VAC, 1 A (Tungsten)	
		264 VAC, 1 A FLA, 6 A LRA	
ODX02SN	Output	60 VDC, 2 A (General Purpose)	
		60 VDC, 1 A (Tungsten)	
OD201SN	Output	200 VDC, 1.5 A (General Purpose)	
		200 VDC, 0.75 A (Tungsten)	

Precautions

■ Connection

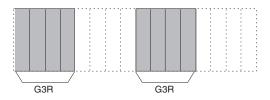
With the SSR for DC switching, the load can be connected to either positive or negative output terminal of the SSR.

Protective element

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.

Precaution of Mounting Output Modules

With up to four G3R SSRs mounted closely and side by side, 2-A loads can be switched.



With a G3R SSRs mounted every other slot, 2-A loads can be switched.



OMRON

MEMO

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Omron Electronic Components, LLC

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- Programmable Products: Seller shall not be responsible for the Buyer's programming of a programmable Product. 5.

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- Severability: If any provision hereof is rendered ineffective or invalid, such provision shall 5 not invalidate any other provision.

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- <u>Suitability for Use</u>. Seller shall not be responsible for conformity with any stan-dards, codes or regulations which apply to the combination of the Product in Buyer's application or use of the Product. At Buyer's request, Seller will provide applicable third party certification documents identifying ratings and limi-tations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in com-Sufficient of a complete other minimum of the sufficient of the Product in com-bination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the par-ticular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases but the following is a non-exhaustive list of applications for which particular attention must be given: (i) Outdoor use involving potential obspirate logatominities explorations
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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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- 3 a guide for the user in determining suitability and does not constitute a war-ranty. It may represent the result of Seller's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to
- correlate it to actual application requirements. Actual performance is subject to Seller's Warranty and Limitations of Liability. <u>Change in Specifications</u>. Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our prac-tice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifica-tions of the Product may be changed without any notice. When in doubt, spe-cial part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Seller representative at any time to confirm actual specifications of purchased Product. 4 confirm actual specifications of purchased Product. <u>Errors and Omissions</u>. The information in this publication has been carefully
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