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 | | 6.6 VDC max. | 3.6 VDC min. |
| G3R-IDZR1SN-1 | 5 VDC | 4 to 6 VDC |] | 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 | 100 M Ω min. between input 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. | | | | |
| 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 | 100 M Ω min. between input and output | | | | |
| Dielectric strength | 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} | | | | | |
| 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





(-)

■ Connecting Sockets

71.5

8

00 00

85.5

P2RF-05







P2RF-05-E











* Indicates a value when using the PFP-DN Supporting Rail. The value is 67.5 when using the PFP- \Box N2.



- 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. ***



be 1.6 to 2.0 mm.)

M3 or 3.5-dia, hole

4.2-dia. hole

30±

G3R I/O Relay P2R-05A Socket





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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.



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