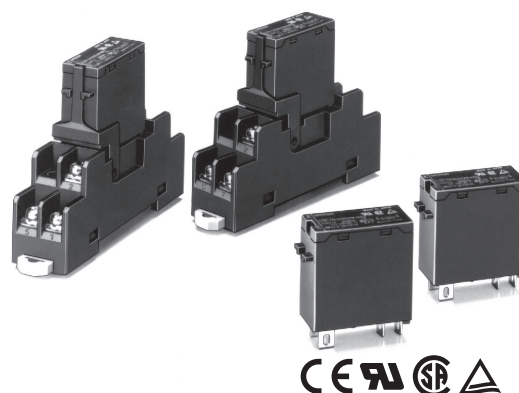


# Solid State Relay G3R-I/O

## 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 voltage  | Model        |               |
|--------------|-----------|-----------------------|----------------|----------------|----------------------|--------------|---------------|
|              |           |                       | Supply voltage | Supply current |                      |              |               |
| Photocoupler | Yes       | —                     | 4 to 32 VDC    | 0.1 to 100 mA  | 100 to 240 VAC       | G3R-IAZR1SN  |               |
|              |           | High-speed<br>(1 kHz) |                |                | 5 VDC                | G3R-IDZR1SN  |               |
|              |           |                       |                |                | Low-speed<br>(10 Hz) | 12 to 24 VDC | G3R-IDZR1SN-1 |
|              |           |                       |                |                |                      | 5 VDC        |               |
|              |           |                       |                |                |                      | 12 to 24 VDC |               |

### ■ Output Module

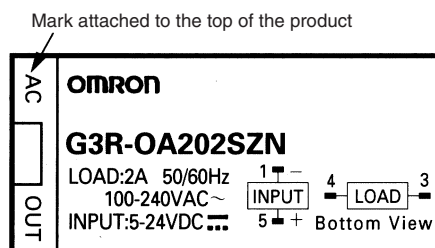
| Isolation    | Indicator | Zero cross function | Rated output load      | Rated input voltage | Model        |
|--------------|-----------|---------------------|------------------------|---------------------|--------------|
| Phototriac   | Yes       | Yes                 | 2 A at 100 to 240 VAC  | 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

I/O module classification and 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 |



# Specifications

## ■ 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.<br>(at 25°C) | 4 VDC max.           | 1 VDC min.           |
| G3R-OA202SLN |               |                   | 8 mA max.               |                      |                      |
| G3R-ODX02SN  |               |                   |                         |                      |                      |
| 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 $\mu$ A max.                                                                      |             |               |
| Insulation resistance  | 100 M $\Omega$ 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 amplitude                                                |             |               |
| Shock resistance       | 1,000 m/s <sup>2</sup> {approx. 100G}                                               |             |               |
| Ambient temperature    | Operating: -30°C to 80°C (with no icing)<br>Storage: -30°C to 100°C (with no icing) |             |               |
| Approved standards     | UL File No. E64562<br>CSA File No. LR35535<br>TÜV File No. R9650094 (EN60950)       |             |               |
| Ambient humidity       | Operating: 45% to 85%                                                               |             |               |
| Weight                 | Approx. 18 g                                                                        |             |               |

## ■ Output Module

| Item                   | G3R-OA202SZN                                                                        | G3R-OA202SLN | G3R-ODX02SN | G3R-OA201SN |
|------------------------|-------------------------------------------------------------------------------------|--------------|-------------|-------------|
| Operate time           | 1/2 of load power source cycle + 1 ms max.                                          |              | 1 ms max.   |             |
| Release time           | 1/2 of load power source cycle + 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 MΩ 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 amplitude                                                |              |             |             |
| Shock resistance       | 1,000 m/s <sup>2</sup> {approx. 100G}                                               |              |             |             |
| Ambient temperature    | Operating: -30°C to 80°C (with no icing)<br>Storage: -30°C to 100°C (with no icing) |              |             |             |
| Approved standards     | UL File No. E64562<br>CSA File No. LR35535<br>TÜV File No. R9650094 (EN60950)       |              |             |             |
| Ambient humidity       | Operating: 45% to 85%                                                               |              |             |             |
| Weight                 | Approx. 18 g                                                                        |              |             |             |

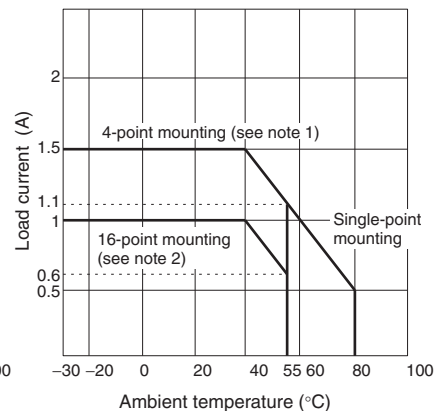
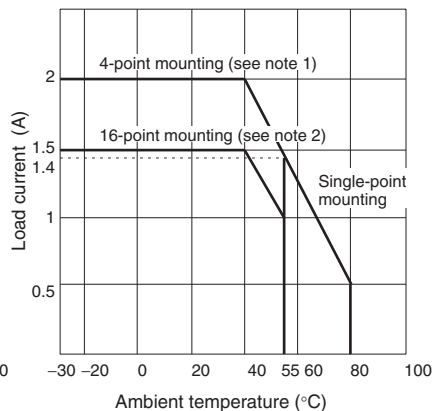
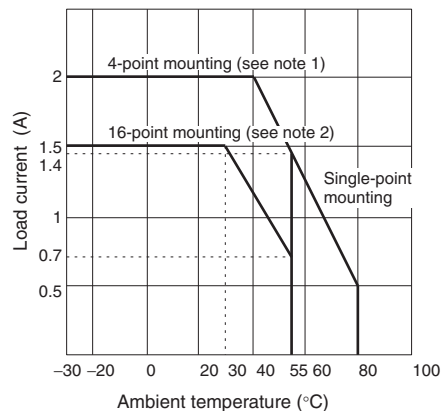
# Engineering Data

## Load Current vs. Ambient Temperature

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

G3R-ODX02SN(-UTU) (4 to 60 VDC)

G3R-OD201SN(-UTU) (40 to 200 VAC)



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

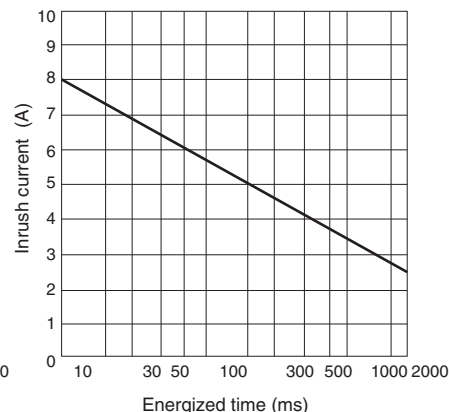
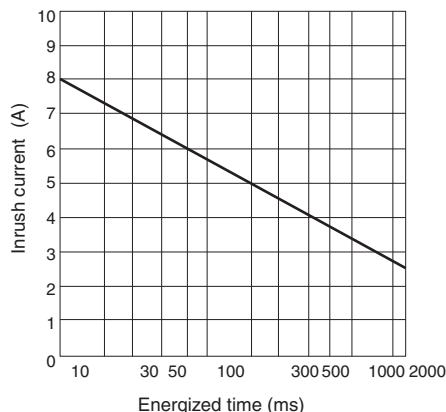
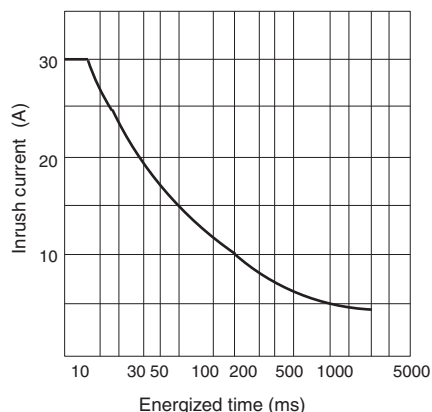
## Inrush Current Resistivity

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

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

G3R-ODX02SN(-UTU)

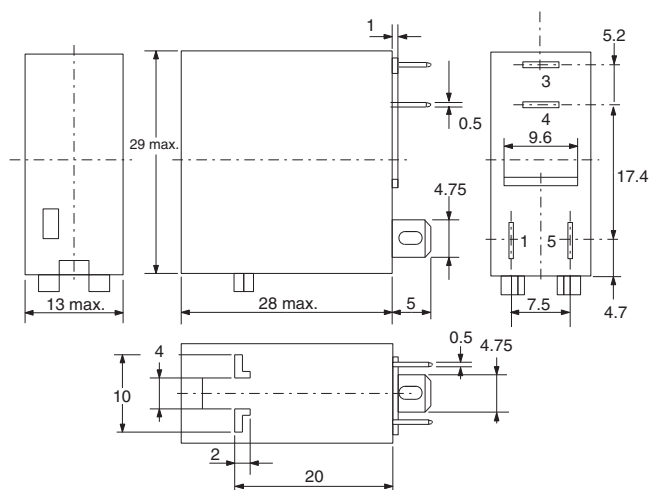
G3R-OD201SN(-UTU)



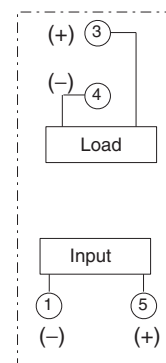
# Dimensions

Unit: mm (inch)

## G3R

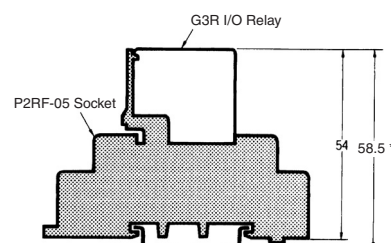
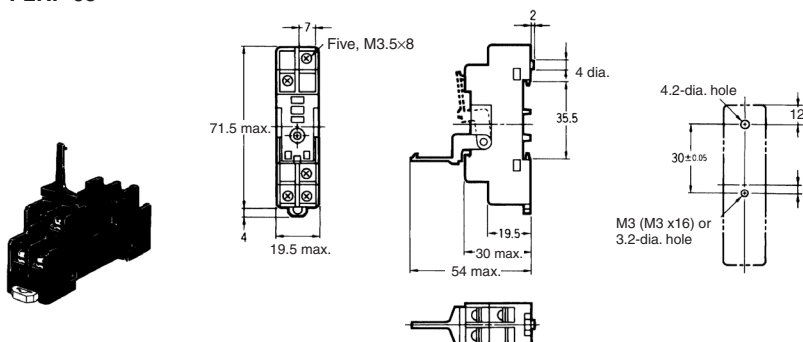


Terminal Arrangement/  
Internal Connections  
(Bottom View)



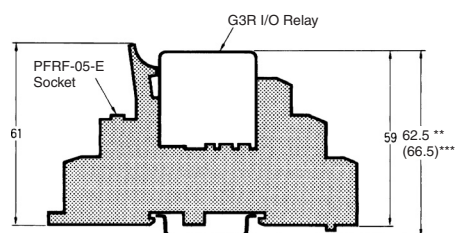
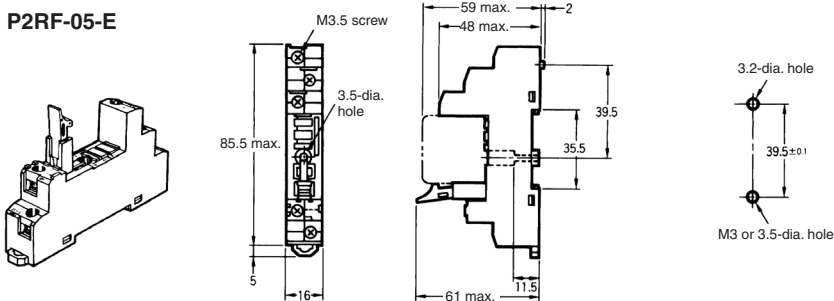
## Connecting Sockets

### P2RF-05



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

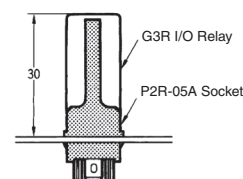
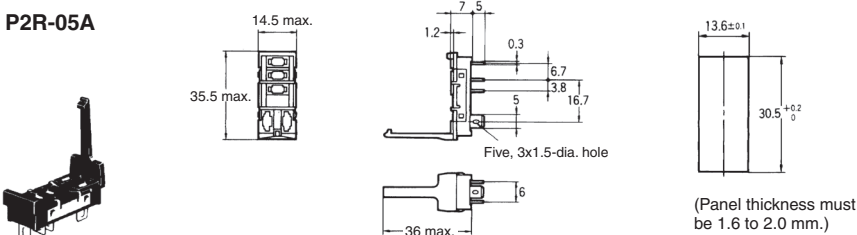
### P2RF-05-E



\*\* 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.

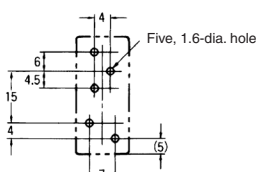
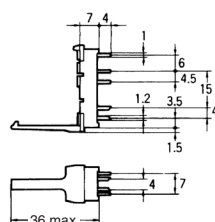
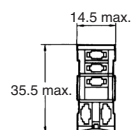
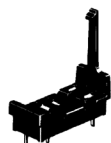
\*\*\* Indicates a value when using the PFP-□N Supporting Rail with the P2RF-08-E.  
The value is 75.5 when using the PFP-□N2.

### P2R-05A

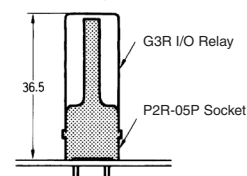


(For use when mounting in a panel or in the P2R-P mounting plate)

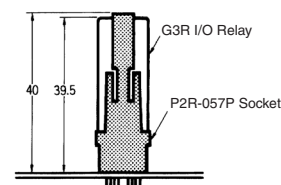
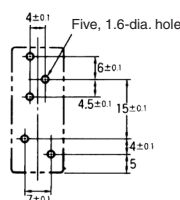
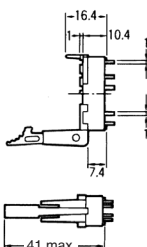
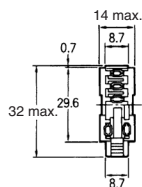
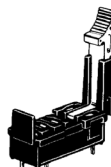
P2R-05P



Dimensional tolerance is  $\pm 0.1$ .



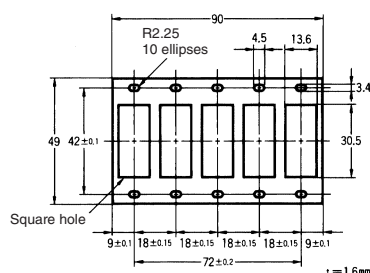
P2R-057P



## ■ 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)<br>264 VAC, 1 A (Tungsten)<br>264 VAC, 1 A FLA, 6 A LRA |
| OA202SLN   | Output      | 264 VAC, 2 A (General Purpose)<br>264 VAC, 1 A (Tungsten)<br>264 VAC, 1 A FLA, 6 A LRA |
| ODX02SN    | Output      | 60 VDC, 2 A (General Purpose)<br>60 VDC, 1 A (Tungsten)                                |
| OD201SN    | Output      | 200 VDC, 1.5 A (General Purpose)<br>200 VDC, 0.75 A (Tungsten)                         |

# Precautions

## ■ Connection

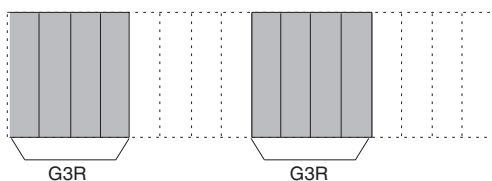
With the SSR for DC switching, the load can be connected to either positive or negative output terminal of the SSR.

## ■ Protective element

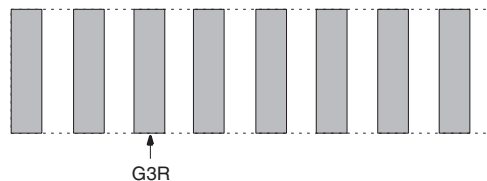
Since the SSR does not incorporate an overvoltage absorption component, be sure to connect an overvoltage absorption component when using the SSR under an inductive load.

## ■ 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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1. **Offer; Acceptance.** These terms and conditions (these "Terms") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "Products") by Omron Electronics LLC and its subsidiary companies ("Omron"). Omron objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms.
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  - b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer;
  - c. All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid;
  - d. Delivery and shipping dates are estimates only; and
  - e. Omron will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
12. **Claims.** Any claim by Buyer against Omron for shortage or damage to the Products occurring before delivery to the carrier must be presented in writing to Omron within 30 days of receipt of shipment and include the original transportation bill signed by the carrier noting that the carrier received the Products from Omron in the condition claimed.
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