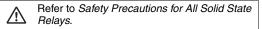
Solid State Relays

100-µA-max. Leakage Current, No Bleeder Resistor Required

- 1 mA to 500 mA micro-load switching.
- Switch to both AC and DC with no polarity.
- Switch for a wide range of voltages; 19.2 to 264 VAC, 19.2 to 125 VDC.
- Switch full- and half-wave rectifier AC loads.
- Same sizes and terminal arrangements as OMRON Power Relay MY Series.
- Operating indicator provided.
- Switch MY Series (without bleeder resistor).
- Superior surge absorption with a built-in varistor.
- Optimum SSR to control minute load, valves, and solenoids.



Model Number Structure

Model Number Legend



- 1. Basic Model Name G3FM: Solid State Relay
- 2. Rated Load Power Supply Voltage
- 3. Rated Load Current
- R5: 0.5 A
- 4. Terminal Type
 - S: Plug-in terminals
- 5. Zero Cross Function L: Not equipped with zero cross function
- 6. Operation Indicator
 - N: Equipped with operation indicator

Ordering Information

■ List of Models

Isolation	Zero cross function	Indicator	Rated output load	Rated input voltage	Model
Photo-voltage coupler	No	Yes	0.5 A at 24 to 240 VAC	5 VDC	G3FM-2R5SLN
			0.5 A at 24 to 110 VDC	12 VDC	
				24 VDC	

Note: When ordering, specify the rated input voltage.



Note: The socket is optional.

■ Accessories (Order Separately)

Connecting Sockets/Hold-Down Clips

	Front-mounting Sockets		Back-mounting Sockets		
Socket	PYF08A(-E)	PYF08M	PY08-02	PY08(QN)	
Hold-down Clip	PYC-A1	PYC	PYC-P	PYC-P	
		PYC-P		PYC-S	

Specifications

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

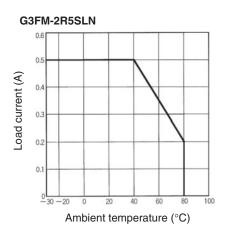
Model		Input				Output			
	Rated Operating		Impedance	Voltage levels		Applicable load			
	voltage	voltage		Must operate voltage	Must release voltage	Rated load voltage	Load voltage range	Load current	Inrush current
G3FM-2R5SLN	5 VDC	4 to 6 VDC	250 Ω±20%	4 VDC max.	1 VDC min.	240 VAC			6 A (10 ms)
	12 VDC	9.6 to 14.4 VDC	600 Ω±20%	9.6 VDC max.					
	24 VDC	19.2 to 28.8 VDC	1.2 kΩ±20%	19.2 VDC					

■ Characteristics

Operate time	5 ms max.			
Release time	10 ms max.			
Output ON voltage drop	3 V (RMS) max.			
Leakage current	0.1 mA max. (at 200 VAC)			
Insulation resistance	100 M Ω min. (at 500 VDC)			
Dielectric strength	1,500 VAC, 50/60 Hz for 1 min			
Vibration resistance	10 to 55 to 10 Hz, 0.75-mm single amplitude			
Shock resistance	1,000 m/s ²			
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%			
Weight	Approx. 50 g			

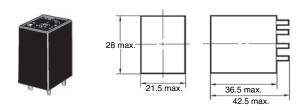
Engineering Data

Load Current vs. Ambient Temperature Characteristics



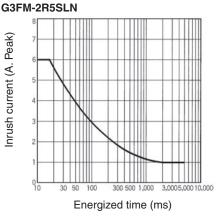
Dimensions

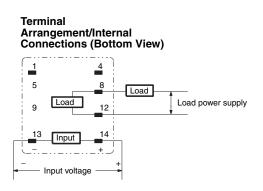
Note: All units are in millimeters unless otherwise indicated.



One Cycle Surge Current: Non-repetitive

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





Safety Precautions

Refer to Safety Precautions for All Solid State Relays.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

In the interest of product improvement, specifications are subject to change without notice.

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