

I/O Solid State Relays

G3R-IDZR1SN DC12-24



Image

High-speed response speed, Input: 12 to 24 VDC, Output: 4 to 32 VDC, Load current: 0.1 to 100 mA, Plug-in terminal

Product classification	Relay compatible High-speed response speed
Operating indicator	Equipped
Rated voltage	12 to 24 VDC
Rated load voltage	4 to 32 VDC
Load current	0.1 to 100 mA
Terminal structure	Plug-in terminal

Ratings / Performance

As of April 14, 2021

Ratings

Product classification	Relay compatible High-speed response speed	
Isolation method	Photocoupler	
Operating indicator	Equipped	
Terminal structure	Plug-in terminal	
Mounting	Socket	
Input	Rated voltage	12 to 24 VDC
	Operating voltage range	6.6 to 32 VDC
	Input current	8 mA max.
	Operate voltage	6.6 VDC max.
	Release voltage	3.6 VDC min.
Output	Rated load voltage	4 to 32 VDC
	Load current	0.1 to 100 mA

Performance

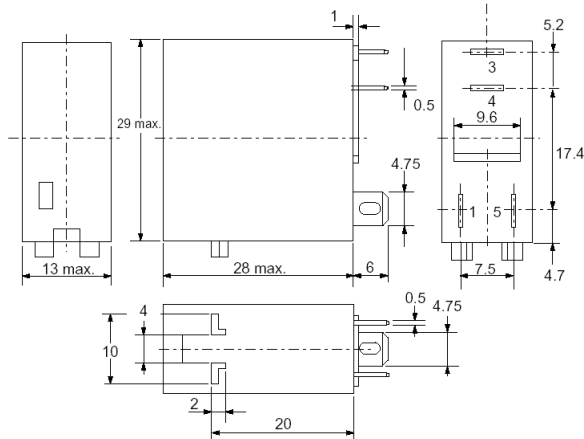
Operate time	0.1 ms max.
Release time	0.1 ms max.
Output ON voltage drop	1.6 V max.
Leakage current	5 μA max.
Insulation resistance	Between input and output: 100 MΩ min.
Dielectric strength	Between input and output: 4000 VAC 1 min
Vibration resistance	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)
Shock resistance	1000 m/s ²
Ambient temperature (Operating)	-30 to 80 °C (with no freezing or condensation)

Ambient temperature (Storage)	-30 to 100 °C (with no freezing or condensation)
Ambient humidity (Operating)	45 to 85% RH
Weight	Approx. 18 g

As of April 14, 2021

Outline drawing

As of April 14, 2021



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Connection diagram

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Terminal arrangement and internal connection

