

■ Specifications

● Model without heat sink

Maximum load current	15A	25A	45A
Input voltage range	3.5 to 30V		
Input current	10mA max.		
Pick-up voltage	3.5Vdc max.		
Drop-out voltage	1Vdc min.		
Load voltage range	35 to 264Vac		
Max. surge current for 1 cycle	150A	225A	440A
Dielectric strength	3000Vac		
Operating temperature range	-20 to +80°C		
Applicable standards	UL, cUL		
Mass	Approx. 65g		Approx.100g

● Model with heat sink

Maximum load current	15A	25A
Input voltage range	4.5 to 30V	
Input current	12mA max.	
Pick-up voltage	4.5Vdc max.	
Drop-out voltage	1Vdc min.	
Load voltage range	60 to 280Vac	
Max. surge current for 1 cycle	150A	250A
Dielectric strength	2500Vac	
Operating temperature range	-20 to +80°C	
Applicable standards	UL, cUL, CE, TUV	
Mass	Approx. 220g	

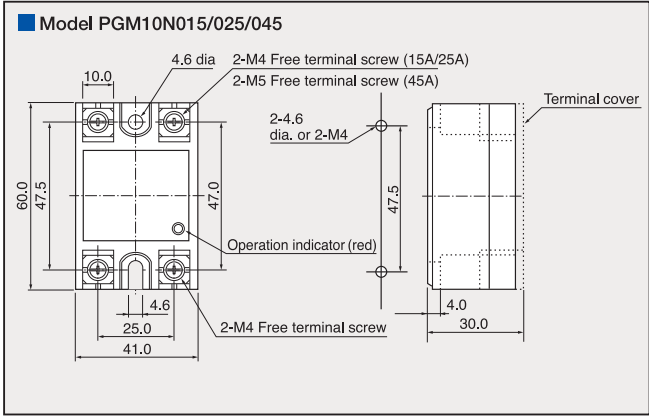
■ Selection Guide

Example: PGM10N015

Segment	Model No. selection		Description	
I	Basic No.	PGM10N	↓	SSR without heat sink
		PGM10F	↓	SSR with heat sink
II	Capacity	015	○ ○	Load current: 15A
		025	○ ○	Load current: 25A
		035	— ○	Load current: 35A
		045	○ ○	Load current: 45A

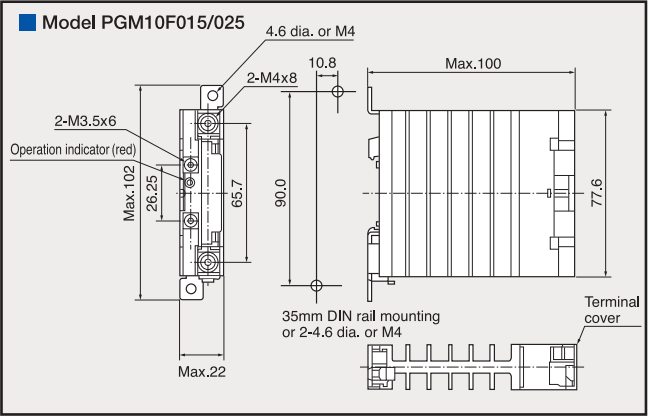
■ Dimensions

● Model without heat sink



● Model with heat sink

(Unit: mm)



⚠ Handling Precautions

Model PGM10F015/025 has a limited service life.
Using the unit for more than the specified number of uses may result in short circuit of the output element or fire.
For details, see CP-SS-1822E.

Please read "Terms and Conditions" from the following URL
before ordering and use.
<https://www.azbil.com/products/factory/order.html>

Product names, model numbers and company names may be trademarks of the respective company.

[Notice] Specifications are subject to change without notice.
No part of this publication may be reproduced or duplicated
without the prior written permission of Azbil Corporation.

Azbil Corporation

Advanced Automation Company

1-12-2 Kawana, Fujisawa

Kanagawa 251-8522 Japan

URL: <https://www.azbil.com>

1st Edition: Apr. 2004-BR
6th Edition: Jun. 2023-AZ

azbil

Solid-State Relays

Model PGM10N/F

Superior Heat Control
Compact Body



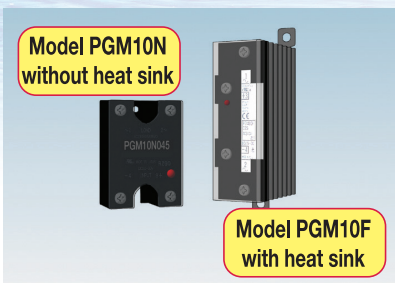
High quality, compact, robust models in a wide variety are available to deliver highly reliable and maintenance-free temperature control.



Model PGM10N/F lineup features solid-state relays with zero-cross functions for single phase power. They are used to control heating in conjunction with time proportioning voltage pulse output controllers.

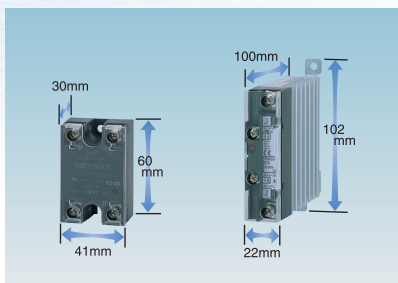
Wide variation

Two series of models are available, model PGM10N without heat sink and model PGM10F with heat sink.



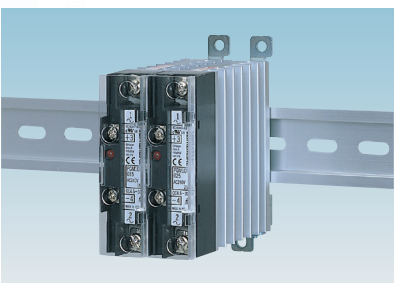
Compact & slim body

Model PGM10N/F is compact but offers temperature control. Mounting is easy even in a restricted space. In keeping with current trends in equipment, model PGM10N/F does more with less.



Easy mounting

Model PGM10F body with heat sink is thin and can be easily mounted on a DIN rail. This model can also be gang-mounted to save space. Model PGM10N without heat sink all have identical mounting dimensions.



Solid-State Relays Model PGM10N/F

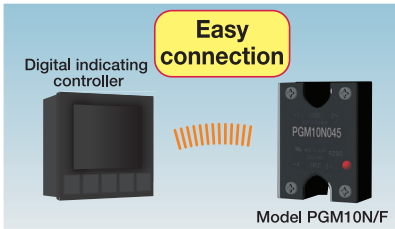
COMPACT WITH A WIDE SELECTION

Lineup

Type	Models without heat sink			Models with heat sink	
Appearance					
Model No.	PGM10N015	PGM10N025	PGM10N045	PGM10F015	PGM10F025
Maximum load current	15A	25A	45A	15A	25A
Input voltage range	3.5 to 30V	○	○	○	○
	4.5 to 30V	—	—	○	○
Mounting	Screw	○	○	○	○
	DIN rail	—	—	○	○
Operation indicator	○	○	○	○	○
Varistor	Built-in	Built-in	Built-in	Built-in	Built-in
Terminal cover	Attached	Attached	Attached	Attached	Attached

Wide input voltage range

Model PGM10N/F offers a wide voltage range for the input signal, and it can be easily connected to Azbil Corporation's digital indicating controllers model (voltage pulse output type).



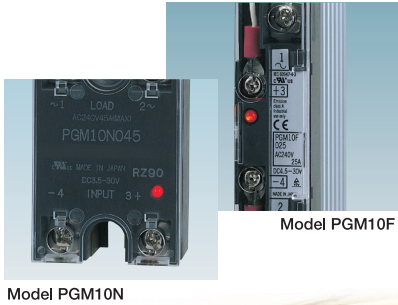
● Number of units connectable in parallel (for one output)

Model No. of Azbil's controller	Model No. of Azbil's solid state relay (SSR)	
	PGM10N_	PGM10F_
C1M/C1A	2 units	2 units
C15/25/26/35/36	2 units	2 units
C7G	2 units	2 units
NX-D15/25/35*	10 units	8 units

* An external power supply is required when connecting to model NX-D15/25/35.

At-a-glance easy confirmation of operation

An operation indicator is provided on all model PGM10N/F (with/without heat sink), so operation status can be checked quickly.



Surge absorption by a built-in varistor

A varistor is incorporated as a standard feature in model PGM10N/F. The varistor is effective for absorbing a surge coming from an external circuit protecting model PGM10N/F from damage.

