

# ORDERING INFORMATION

# Model : PSN1G

## PLEASE FILL IN THIS SECTION



Model
Company
Name
P/O No.

## FACTORY USE ONLY



Job No.	Approved by (Sales office)
Ser No.	Issued by (Sales office)
Sales Rep.	

### ■ INSTRUCTION

Select an option or specify the value within the allowable range for the item to be changed from the standard setting. The standard setting will be applied if not specified.

ITEM	SET VALUE	EX-FACTORY	COMMENTS
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### HARDWARE SETTING (To be adjusted with switches inside the terminal cover)

ACTION	<input type="checkbox"/> Direct <input type="checkbox"/> Reverse	Reverse	The output stem moves downward when the input signal decreases.
OPERATION AT ABNORMALLY LOW INPUT	<input type="checkbox"/> Stop <input type="checkbox"/> Move upward <input type="checkbox"/> Move downward	Stop	

### HARDWARE OR SOFTWARE SETTING FOR REVERSE ACTION

(To be adjusted with switches inside the terminal cover or with Programming Unit)

FULL-CLOSED/LOWER-END POSITION 86 – 106 mm	mm	106 mm	The distance between the tip of the output stem and the yoke surface at the full-closed/lower-end position.
FULL-OPEN/UPPER-END POSITION 86 – 106 mm	mm	86 mm	The distance between the tip of the output stem and the yoke surface at the full-open/upper-end position. Set the upper-end position so as to be shorter than the lower-end position.
EX-FACTORY STEM POSITION: 86 – 106 mm	mm	86 mm	The distance between the tip of the output stem and the yoke surface at the EX-factory position.

### SOFTWARE SETTING Modifiable with Programming Unit

FULL-CLOSED/UPPER-END POSITION *1 0 – 92%, 0.1% increments	%	5%	For Reverse action
FULL-OPEN/LOWER-END POSITION *1 8 – 100%, 0.1% increments	%	95%	For Reverse action
UPPER-END SIDE LIMITER* -5 – +25%, 0.1% increments	%	0%	
LOWER-END SIDE LIMITER* 75 – 105%, 0.1% increments	%	100%	
OPENING/CLOSING SPEED -	-	25	
DEADBAND 0.1 – 5%, 0.1% increments	%	0.1%	
RESTART LIMITING TIMER 0 – 30 sec., 0.1 sec. increments	sec.	0.1 sec.	

\* Specify % when the operation distance of 20 mm based on the standard setting is defined as 100 %.

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### ■ Resolution (\* varies according to the deadband settings)

The output stem operates according to the input signal.  
When 4 to 20 mA DC input signal is applied, the output stem follows the input signal in units of 0.16 mA.  
That is, resolution of 0.1% is achieved when the output stem reciprocates i.e. moves up and down 1,000 times in units of 0.16 mA or less.

### ■ Operation at abnormally low input

The output stem operates as specified when an abnormally low input is detected even though power supply voltage is being applied.

The abnormal input signal level is 1.48 ( $\pm 0.4$ ) mA DC or lower.

The output stem operation mode can be selected from:

- Stop at the current position;
- Extend/move downward to the full-closed/lower-end position;  
and
- Retract/move upward to the full-open/upper-end position.

### ■ Restart Limiting Timer

The output stem operates frequently (i.e. hunting occurs) when input signal is unstable and its value changes frequently, resulting in shortening the life of the product.

In order to prevent such frequent operation or hunting of the actuator, the restart limiting timer can be set (0 to 30 sec.) so as to prevent the motor from restarting for the specified period of time after reaching and stopping at the target position based on the input signal.

The unit must operate at an average duty cycle of 50% (ratio of operating time to standby time) or less. The operation rate exceeding 13 strokes / min. is regarded as hunting.