

NPS SERIES

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■ General terms and conditions..... F-17

■ General precautions P.1405



- Never use this product in a device for personnel protection.
- In case of using devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.

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Multi-functional DIN rail mounting slim sensor controller

SPECIFICATIONS

The CAD data in the dimensions can be downloaded from our website.

Item	Model No.	DIN rail mounting		
		General use	High-performance	Two sensor connection
		NPS-C7	NPS-CT7	NPS-C7W
Applicable sensors	Photoelectric sensor, inductive proximity sensor, etc., with NPN transistor output or relay output			
Supply voltage	100 to 240 V AC $\pm 10\%$			
Power consumption	6 VA or less			
Power supply for sensor	Voltage	12 V DC $\pm 10\%$ (incorporated with short-circuit protection)		
	Current	150 mA max.	130 mA max.	120 mA max.
Output	Relay contact 1c		NPN open-collector transistor	Relay contact 1c $\times 2$
	<ul style="list-style-type: none"> • Switching capacity: 250 V 3 A AC (resistive load) • Electrical life: 100,000 switching operations or more (rated load)(at 1,800 operations/hour) • Mechanical life: 10 million switching operations or more (at 36,000 operations/hour) 		<ul style="list-style-type: none"> • Maximum sink current: 100 mA or less • Applied voltage: 30 V DC or less (between output and 0 V) • Residual voltage: 1 V or less (at 100 mA sink current) 0.4 V or less (at 16 mA sink current) 	<ul style="list-style-type: none"> • Switching capacity: 250 V 3 A AC (resistive load) • Electrical life: 100,000 switching operations or more (rated load)(at 1,800 operations/hour) • Mechanical life: 10 million switching operations or more (at 36,000 operations/hour)
Output operation	Switchable normal operation or inverse operation			
Response time	Relay contact: 10 ms approx., NPN open-collector transistor: 5 μ s or less		10 ms approx.	
Indicators	Power	Red LED (lights up when the power is ON)		
	Output (Note 2)	Red LED (lights up when the output is ON)		
	Sensor signal input	_____	(Red LED lights up when the sensor signal input is effective)	_____
	External synchronization input	_____	(Red LED lights up when the external synchronization input is effective)	_____
External synchronization function	Gate trigger	Gate trigger and edge trigger	_____	
Timer function	_____	Three function selectable timer (Timer period: switchable either 40 ms to 1 sec. or 0.4 sec. to 10 sec.)	_____	
Ambient temperature	-10 to +50 °C +14 to +122 °F (No dew condensation or icing allowed), Storage: -30 to +70 °C -22 to +158 °F			
Material	Enclosure: ABS, Terminal block: PBT (Glass fiber reinforced)			
Connecting method	Terminal block			
Weight	Net weight: 160 g approx.			
Accessories	Short bar: 1 pc., NPS-CV (Protection cover): 1 pc., Short-circuit protection plate: 1 pc., Adjusting screwdriver: 1 pc. (NPS-CT7 only)			
Dimensions	W80 \times H80 \times D32 mm W3.150 \times H3.150 \times D1.260 in			

Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +20 °C +68 °F.

 2) In **NPS-C7W**, two output indicators, Sensor 1 output indicator and Sensor 2 output indicator, have been incorporated.

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LASER SENSORS

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MICRO PHOTOELECTRIC SENSORS

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SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

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Copy Unit

Sensor Mounting Stand

Sensor Checker

Sensor Controller

Other Products

NPS