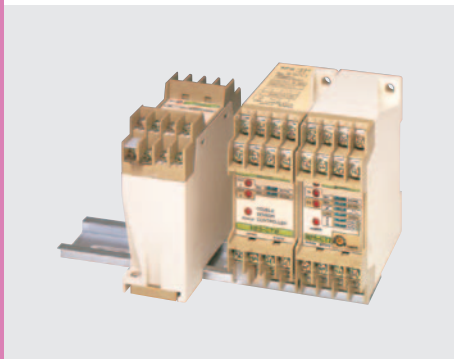


NPS SERIES

[Related Information](#)

■ General terms and conditions..... F-7

■ General precautions P.1501



- 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 • 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)	NPN open-collector transistor • 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)	Relay contact 1c $\times 2$ • 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.

FIBER SENSORS

LASER SENSORS

PHOTOELECTRIC SENSORS

MICRO PHOTOELECTRIC SENSORS

AREA SENSORS

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INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASUREMENT SENSORS

STATIC ELECTRICITY PREVENTION DEVICES

LASER MARKERS

PLC

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ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS

MACHINE VISION SYSTEMS

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Sensor Mounting Stand

Sensor Checker

Sensor Controller

Other Products

NPS