Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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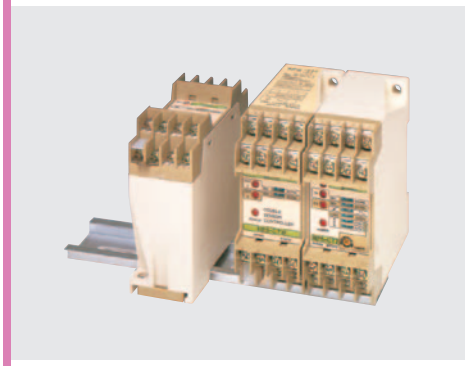
ON / OFF Input Sensor Controller

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.

panasonic.net/id/pidsx/global

Multi-functional DIN rail mounting slim sensor controller

SPECIFICATIONS

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

Item \ Type		DIN rail mounting		
		General use	High-performance	Two sensor connection
Item	Model No.	**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 ±10 %		
Power consumption		6 VA or less		
Power supply for sensor	Voltage	12 V DC ±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 ×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 µs 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 × H80 × D32 mm W3.150 × H3.150 × 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.