

Photoelectric sensor

NX5 series

Compact Multi-voltage Photoelectric Sensor **Power supply Built-in**

NX5 series



FEATURES

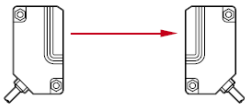

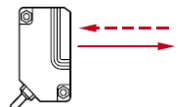
Long sensing ranges and high reliability are combined in this compact sensor design, which is available in thru-beam, retroreflective or diffuse reflective versions. The output is a sealed relay allowing connection of high capacity loads. All sensors accept AC or DC supply voltages. Thru-beam and retroreflective models can be ordered with an infrared or visible red light source. Cross talk prevention means that two sensors can be mounted closely together.

- **Multi-voltage** : The NX5 series can operate at 24 to 240 V AC or 12 to 240 V DC,
- **Compact size** : Despite of being multi-voltage, it has a depth of just W18 × H62 × D35 mm
- **Long sensing range** : The NX5 series have 3 types are Thru beam type sensing range max. 30m, Retroreflective type sensing range max. 5m and the Diffuse type sensing range max. 700mm.
- **Relay output built-in** : Relay contact 1 c in compact size.
- **IP66 degree of protection** : Red LED stronger for use in dust, dirt and some water splashes.
- **Light-ON/dark-ON modes** : Must be select output operation mode before order.

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SPECIFICATIONS


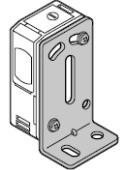
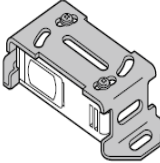
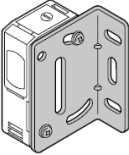
Type			Appearance	Sensing range	Model no.	Emitting element	Output operation
Thru-beam		Light-ON		10 m	NX5-M10RA	Red LED	Relay contact 1c
		Dark-ON			NX5-M10RB		
	Long sensing range	Light-ON		30 m	NX5-M30A	Infrared LED	
		Dark-ON			NX5-M30B		
Retroreflective	With polarizing filters	Light-ON		0.1 to 5 m	NX5-M30A	Red LED	
		Dark-ON			NX5-M30B		
	Long sensing range	Light-ON		0.1 to 7 m	NX5-M30A	Infrared LED	
		Dark-ON			NX5-M30B		
Diffuse reflective	Light-ON		700 mm	NX5-D700A	Infrared LED		
	Dark-ON			NX5-D700B			

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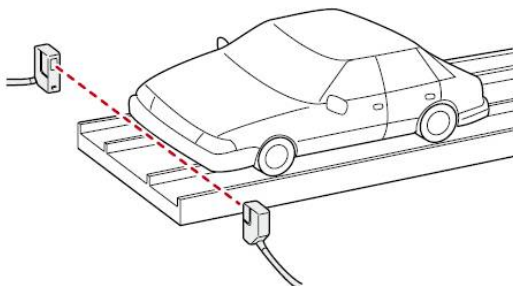
OPTIONS

- Sensor mounting bracket

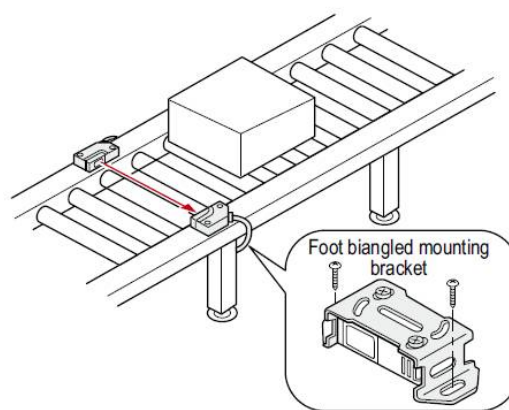
Type	Appearance	Model no.	Description	
Reflector		RF-230	For retroreflective type sensor only	
Sensor mounting bracket		MS-NX5-1	Foot angled mounting bracket	The thru-beam type sensor needs two brackets.
		MS-NX5-2	Foot biangled mounting bracket (sensor protection bracket)	
		MS-NX5-3	Back angled mounting bracket	

APPLICATIONS

Detecting car position at parking garage



Detecting objects on conveyor line

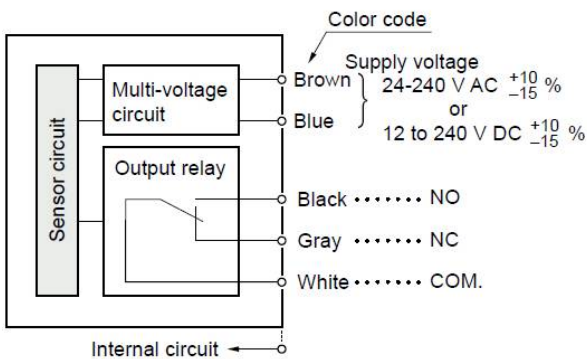


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I/O CIRCUIT AND WIRING DIAGRAMS









I/O circuit diagram



Note: The emitter of the thru-beam type sensor has two wires for power (+V and 0 V) only.

Output operation

 : Object detected state.

Sensing mode		Thru-beam & Retroreflective type				Diffuse reflective type			
		Light-ON (A) type		Dark-ON (B) type		Light-ON (A) type		Dark-ON (B) type	
Output		NO (Black cable)	NC (Gray cable)	NO (Black cable)	NC (Gray cable)	NO (Black cable)	NC (Gray cable)	NO (Black cable)	NC (Gray cable)
Output condition	Power OFF	Open	Close	Open	Close	Open	Close	Open	Close
	Beam-received	Close	Open	Open	Close	 Close	 Open	 Open	 Close
	Beam-interrupted	 Open	 Close	 Close	 Open	Open	Close	Close	Open