

Created 10th May 2014

Inductive Proximity Sensor (DC) – NPN / PNP output

Inductive proximity sensors detect the presence of metallic objects. Their operating principle is based on a coil and high frequency oscillator that creates a field in the close surroundings of the sensing surface. The presence of metal in the operating area causes a change in the oscillation amplitude. This change is identified by a threshold circuit, which changes the output of the sensor. The operating distance of the sensor depends on the coil's size as well as the target's shape, size and material.

Specification:

- Protection Degree IP67
- Operating Temperature: -25 to +65°C
- Material: Nickel plated brass (case) & ABS (Detection surface)
- Power Drain: 8mA/12V, 15mA/24V, AC: <5mA
- Tolerance Operating Distance: $\pm 10\%$
- Non-Flush Mounting (no shield)
- Origin: Taiwan



*Pictures may vary with actual products.

Category: Proximity Sensor

Sub Category: Inductive

Product:

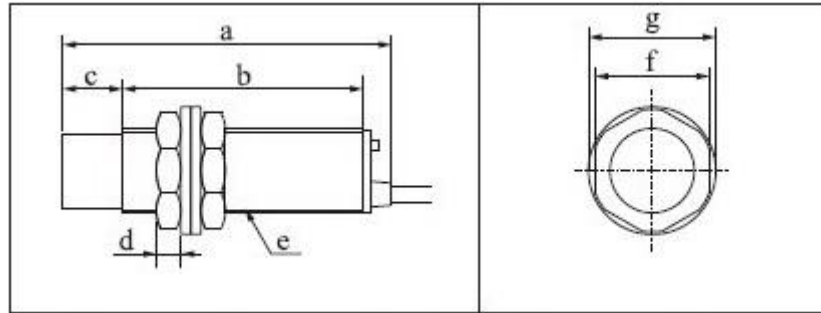
Diameter: 8mm Operating Distance: 2mm Power Supply: 6-36Vdc Switching Current: 300mA	Output Function	Stock Code	Connection
	NPN, NO	13212080	1
	NPN, NC	13212081	1
	NPN, NO+NC	NA	NA
	PNP, NO	13212083	2
	PNP, NC	NA	NA
	PNP, NO+NC	NA	NA
Diameter: 12mm Operating Distance: 5mm Power Supply: 6~30Vdc Frequency Response: 0.4KHz Switching Current: 300mA	Output Function	Stock Code	Connection
	NPN, NO	13212100	1
	NPN, NC	13212101	1
	NPN, NO+NC	NA	5
	PNP, NO	13212103	2
	PNP, NC	13212104	2
	PNP, NO+NC	NA	6
Shielded Diameter: 12mm Operating Distance: 2mm Power Supply: 6 ~ 30Vdc Switching Current: 300mA	Output Function	Stock Code	Connection
	NPN, NO	13212110	1
	NPN, NC	13212111	1
	NPN, NO+NC	13212112	5
	PNP, NO	13212113	2
	PNP, NC	13212114	2
	PNP, NO+NC	13212115	6
Diameter: 18mm Operating Distance: 10mm Power Supply: 6~30Vdc Frequency Response: 0.2KHz Switching Current: 300mA	Output Function	Stock Code	Connection
	NPN, NO	13212120	1
	NPN, NC	13212121	1
	NPN, NO+NC	NA	5
	PNP, NO	13212123	2
	PNP, NC	13212124	2
	PNP, NO+NC	NA	6
Diameter: 30mm Operating Distance: 18mm Power Supply: 6~30Vdc Frequency Response: 0.1KHz Switching Current: 300mA	Output Function	Stock Code	Connection
	NPN, NO	13212140	1
	NPN, NC	NA	1
	NPN, NO+NC	NA	5
	PNP, NO	13212143	2
	PNP, NC	NA	2
	PNP, NO+NC	NA	6

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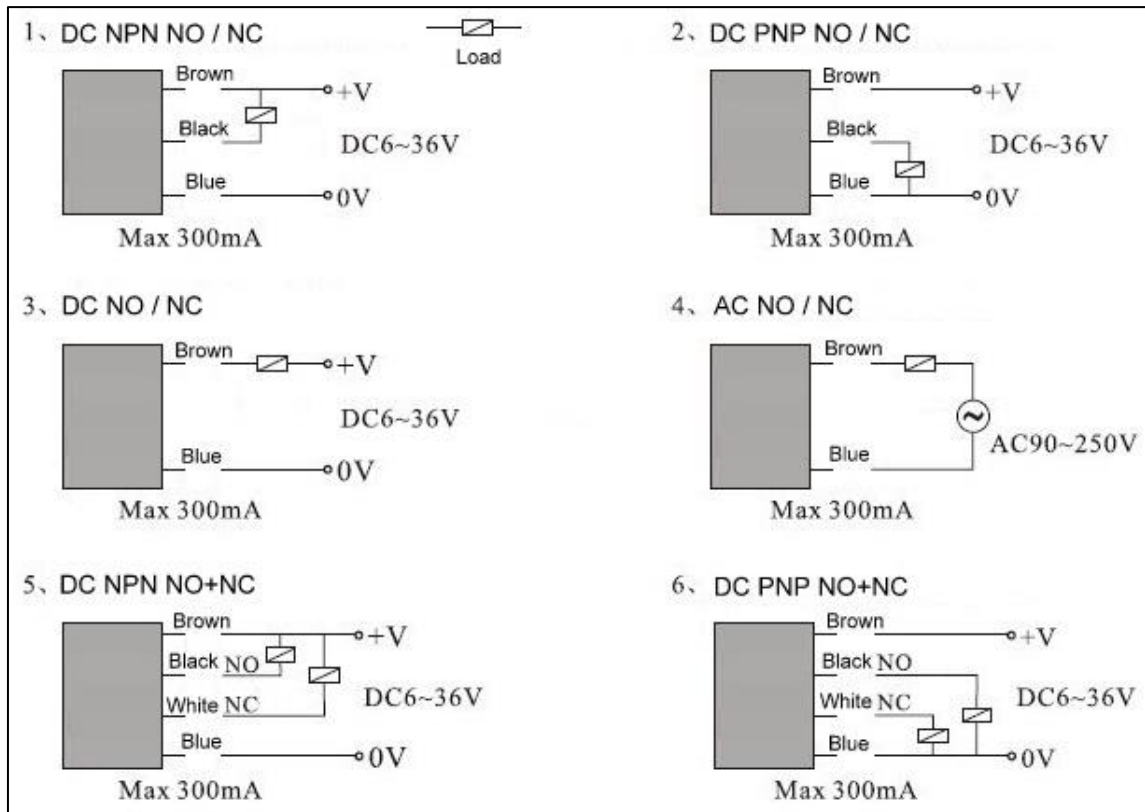
Drawing:



Type	a	b	c	d	e	f	g
12mm	57	45	5	4	M12x1	17	21
18mm	70	52	8.5	4	M18x1	24	30
30mm	78	52	12.5	4.7	M30x1.5	36.2	-

Unit: mm

Connection Diagram:



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