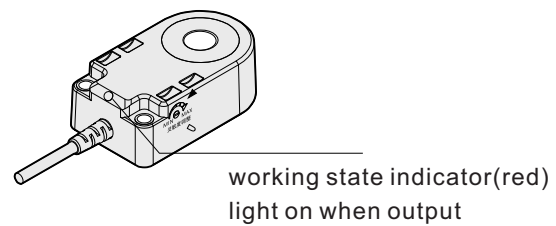


Ring type proximity sensor NH-TA Series



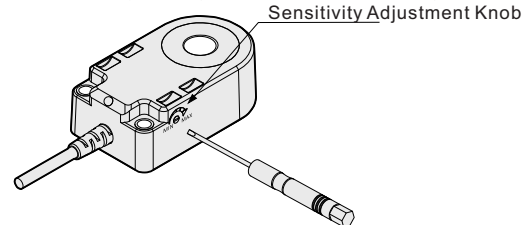
Product characteristics

- A complete range of specifications are available;
- Protection circuit;
Surge protection, short circuit protection, reverse protection
- The equipment has two independent outputs;
All models are equipped with two independent outputs,
and different outputs can be selected according to different places of use
- IP level IP67

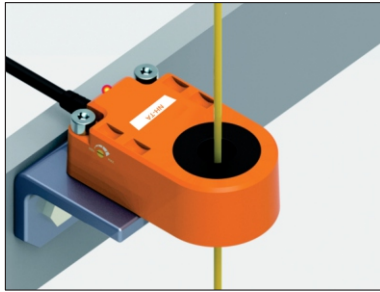


- The sensitivity is adjustable.

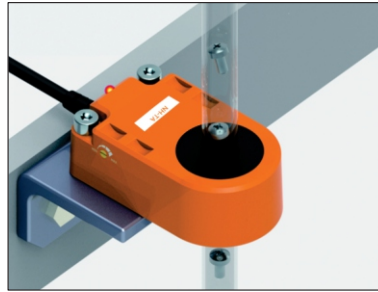
The sensitivity is adjustable, no missing



Application



Detection of wire breakage



Detection of screw blanking



Counting detection of nuts and screws

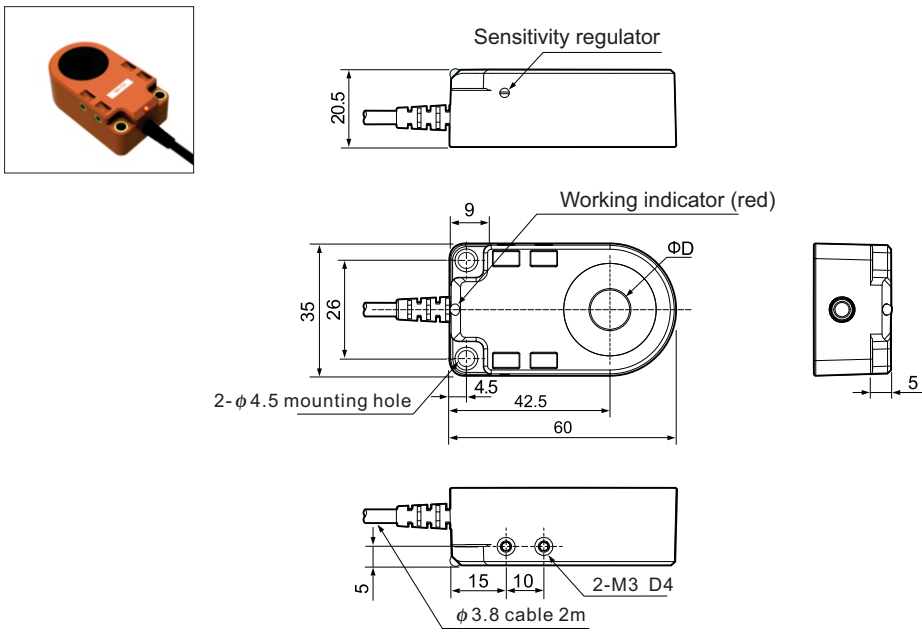
Product specifications

Detail	model	NPN	NH-TA05N	NH-TA06N	NH-TA08N	NH-TA10N	NH-TA12N	NH-TA15N	NH-TA16N	NH-TA22N
		PNP	NH-TA05P	NH-TA06P	NH-TA08P	NH-TA10P	NH-TA12P	NH-TA15P	NH-TA16P	NH-TA20P
Hole size			5.5mm	6.5mm	8.5mm	10.5mm	12.5mm	15.5mm	16.5mm	22.5mm
Min. object (iron)			Φ0.4mm*1	Φ0.5mm*1	Φ0.6mm*1	Φ0.6mm*1	Φ0.8mm*1	Φ1.0mm*1	Φ1.2mm*1	Φ1.5mm*1
		performance parameter								
Object		Magnetic metal (the volume of the smallest detection object increases when the non-magnetic metal is used)								
Response frequency		10Hz								
Power voltage		10-30VDC								
Leakage current		Max. 0.8mA								
Control output	Switching capacity	3-100mA								
	Residual voltage	Max. 3V (when 2m cable, load current 100mA)								
Indicator		Action indicator (red)								
Action form		Type 1: NO, Type 2 : NC								
Protection circuit		Surge protection circuit, short circuit protection and polarity reverse connection protection								
Ambient temperature		Working -25 to+70℃ Storage: -40-85 ℃								
Ambient humidity		35-95%RH								
IP level		IP67								
Effect of temperature		Temperature range -25 to +70°C. The size of the detected object changes within 10% with each change of 20°C.								
Influence of voltage		When the voltage range of rated power supply fluctuates within ±15%, the size of detected object varies within ±1%.								
Insulation impedance		Over 50MΩ (DC500MΩ Meter) Charging External and Outer Shell								
Withstand voltage		AC1000V50/60Hz1min charging External and Outer Shell								
Vibration resistance		10 to 55 Hz, compound amplitude 1.5 mm, X, Y, Z axis direction each 2 hours								
Impact resistance		500 m/s ² X/Y/X direction each 5 times								
Connection mode		2m cable								
Shell material		aperture 0.3-22:PC			aperture 25-100: POM			Inner ring material : POM		

NH-TA series

Dimension

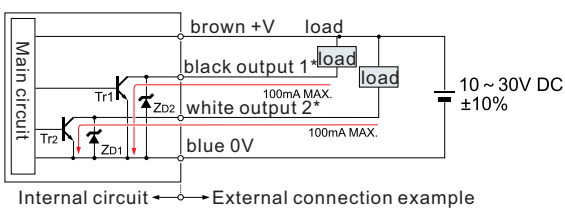
NH-TA03/05/06/08/10/12/15/16/20/22(cable type)



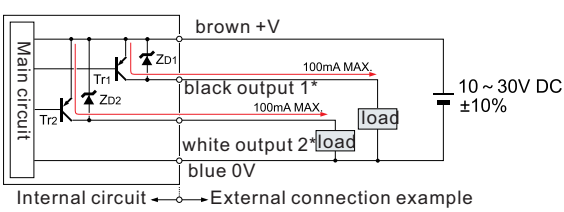
NO.	05	06	08	10	12	15	16	22
Φ D	Φ 5.5	Φ 6.5	Φ 8.5	Φ 10.5	Φ 12.5	Φ 15.5	Φ 16.5	Φ 22.5

I / O circuit diagram

DC 4core NPN output

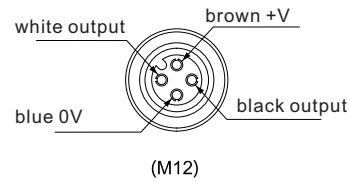
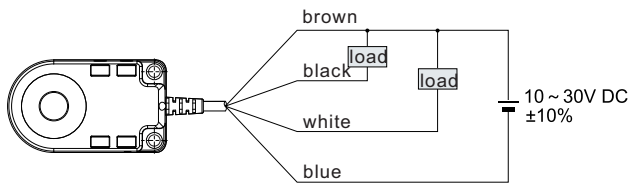


DC 4core PNP output

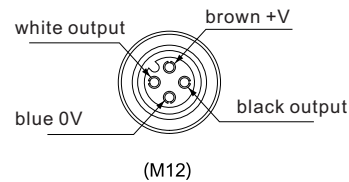
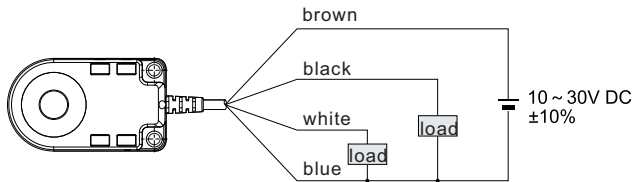


Wiring diagram

NPN



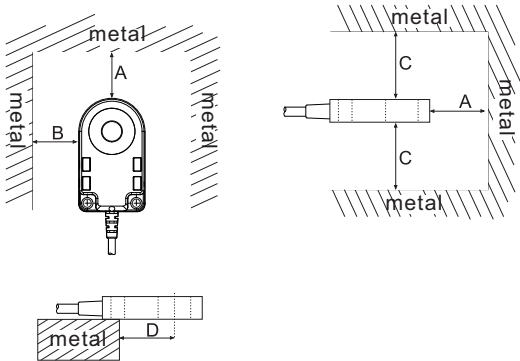
PNP



Instructions

Influence of surrounding metals

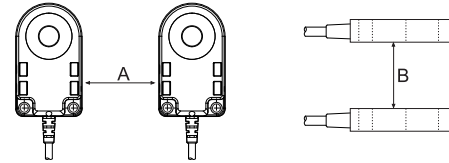
For the effect of surrounding metals, use above the values shown in the table below.



model detail	NH-TA05/06/08/10	NH-TA12/15/16/22
A	10	10
B	10	10
C	15	15
D	10	10

The influence of mutual interference

For overlapping configuration or side-by-side configuration, it should be used in values exceeding the values shown in the following table.



model detail	NH-TA05/06/08/10	NH-TA12/15/16/22
A	15	15
B	25	25

The influence of air pressure

Please refer to the setting value when the detection object is pushed by air pressure in the trachea.

model detail	NH-TA05/06/08/10	NH-TA12/15/16/22
pressure	Max. 0.5Mpa	Max. 0.5Mpa

Relationship between product model and detection length and size (minimum)

model detail	NH-TA05/06/08/10	NH-TA12/15/16/22
Length of object	1/1/1/1	1/2/2/2
Object diameter	0.4/0.5/0.6/0.6	0.8/1.0/1.2/1.5

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