Autonics

This is only for reference, the actual product does not support all combinations. For selecting the specified model, follow the Autonics website.

CR 1 - 2 D 3

O DIA. of sensing side

Ordering Information

Number: DIA. of sensing side (unit: mm)

N: NPN Normally open N2: NPN Normally closed P: PNP Normally open

Control output

Sensing distance

Number: Sensing distance (unit: mm)

Sold Separately

- Connector cable, connector connection cable
- Spatter protection cover
- Fixed bracket
- Transmission coupler

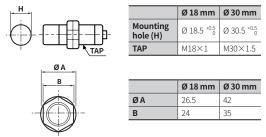
Specifications

Installation	Non-flush type	
Model	CR18-8D	CR30-15D
DIA. of sensing side	Ø 18 mm	Ø 30 mm
Sensing distance	8 mm	15 mm
Setting distance	0 to 5.6 mm	0 to 10.5 mm
Hysteresis	≤ 20 % of sensing distance	
Standard sensing target: iron	$50 \times 50 \times 1 \text{ mm}$	
Response frequency ⁰¹⁾	50 Hz	
Affection by temperature	$\leq \pm$ 20 % for sensing distance at ambient temperature 20 °C	
Indicator	Operation indicator (red)	
Approval	EAC	EAC
Unit weight (package)	≈ 76 g (≈ 88 g)	≈ 206 g (≈ 243 g)
	the average value. The standard sensing ing target, 1/2 of the sensing distance for	
Power supply	12 - 24 VDC== (ripple P-P: ≤ 10 %), operating voltage: 10 - 30 VDC==	

Power supply	12 - 24 VDC== (ripple P-P: \leq 10 %), operating voltage: 10 - 30 VDC==	
Current consumption	\leq 15 mA	
Control output	≤ 200 mA	
Residual voltage	$\leq 1.5 \text{V}$	
Protection circuit	Surge protection circuit, reverse polarity protection	
Insulation resistance	\geq 50 M Ω (500 VDC= megger)	
Dielectric strength	1,500 VAC \sim 50 / 60Hz for 1 min (between all terminals and case)	
Vibration	1 mm double amplitude at frequency 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 2 hours	
Shock	500 m/s² (≈ 50 G) in each X, Y, Z direction for 3 times	
Ambient temperature	-25 to 70 °C, storage: -30 to 80 °C (no freezing or condensation)	
Ambient humidity	35 to 95 %RH, storage: 35 to 95 %RH (no freezing or condensation)	
Protection structure	DIA. of sensing side Ø 18 mm: IP66 (IEC standard) / DIA. of sensing side Ø 30 mm: IP65 (IEC standard)	
Connection	Cable type	
Cable spec.	DIA. of sensing side Ø 18 mm [:] Ø 4 mm, 3-wire, 2 m DIA. of sensing side Ø 30 mm [:] Ø 5 mm, 3-wire, 2 m	
Wire spec.	AWG 22 (0.08 mm, 60-core), insulator DIA.: Ø 1.25 mm	
Material	Standard type cable (black): polyvinyl chloride (PVC)	
DIA. of sensing side Ø 18 mm	Case / Nut: PA6	
DIA. of sensing side Ø 30 mm	Case / Nut: nickel-plated brass, washer: nickel-plated iron, sensing side: PBT	

Cut-out Dimensions

• Unit: mm, For the detailed drawings, follow the Autonics web site.



CR Series (DC 3-wire) CATALOG

Cylindrical Capacitive

Proximity Sensors

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Major Features

- Detect various materials including metal, iron, stone, plastic, water, and grain
- Built-in sensitivity adjuster for convenient configuration
- Operation indicator (red)
- Ideal for level detection and position control