

APS-CK Series

Features

PBT Resin Cylinder, 2-wire DC System

- Detection distance: 30 mm
- Equipped with an anchoring clamp
- Offers reliable installation because of a two-color LED that indicates the stable range (green) / unstable range (red)
- Wire-saving because of 2-wire type

Proximity
Sensor Lineup

Selection Guide

Outline

Cylinder Type

Square Type

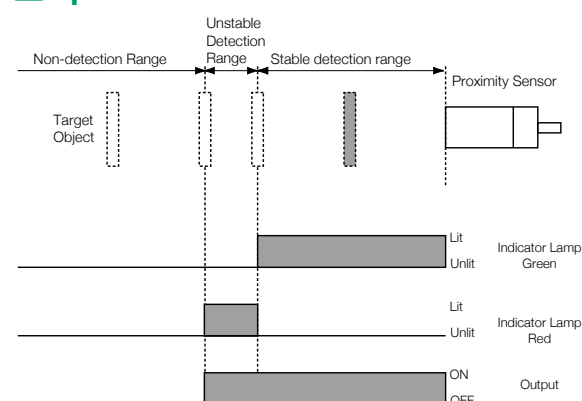
Capacitive Type

Type

2-wire DC System

Output Form	Operating Distance (mm)			Output Form	Model Number	Remarks
Non-flush Mount Type			30	N0	APS30-34CK-Z	

Operation



Note) Regarding the standard target object, the indication light color is changed at a position of about 72% of the operating distance. When the shape and material of the target object are different from the standard target object, the indication light color may be made shorter than the 72% position of the operating distance.

APS-GMC

APS-GMD







APS-GK

APS-30/31

APS-CK


APS-CK Series

2-wire DC System Non-flush Mount Type

P L C	
H M I	
SENSOR	
ENCODER	
COUNTER	
INFORMATION	

Proximity Sensor Lineup
Selection Guide
Outline
Cylinder Type
Square Type
Capacitive Type

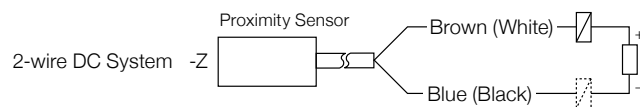
APS-GMC
APS-GMD
APS-GK
APS-30/31
APS-CK

Effective Operating Distance		30 mm±15%	
Photo			
Remarks		Accessories Clamp for fixing (With 2 screws and washers each)	
Output Form	NO	Model Number	APS30-34CK-Z
		Price	Open
Rated Working Voltage		12/24 V DC (10 to 30 V DC) Allowable ripple rate: 3% p-p or less	
Standard Target Object (mm)		Iron 60 x 60 x 1 t	
Guaranteed Operating Distance		0 to 21.6 mm	
Reaction Material		Iron/Non ferrous metal (Operating distance changes depending on materials.)	
Hysteresis		Approx. 20% or less	
Operating Cycle Frequency		Up to 10 Hz	
Rated Working Current		5 to 100 mA	
Voltage Drop		5 V or lower	
Off-state Current		1.0 mA or lower	
Indicator Lamp		Operation indication: Red or green lights up when output is ON. Installation indication: Green lights up within the stable detection range.	
Use Ambient Temperature		-10 to +50°C	
Temperature Characteristics		Within ±15% (At the operating distance at +23°C)	
Withstand Voltage		500 V AC 50/60Hz (1 minute)	
Insulation Resistance		50 MΩ or higher (500 V DC)	
Vibration Resistance		Double amplitude: 1.5 mm, 10 to 55 Hz (2 h each for X, Y and Z direction)	
Impact Resistance		490m/s ² , within 11 ms (10 times each for X, Y and Z direction)	
Protection Level		IP67	
Case Material		PBT resin	
Lead Wire		Oilproof vinyl chloride cable 2 m Outside diameter (about $\phi 5.9$) 0.5 mm ² , 2 core	
Tightening Torque		5 Nm or less	
Weight (g)		Approx. 180	

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Connection and Operation

Connection/Operation



(Target Object Not Present Present)

Output OFF ON

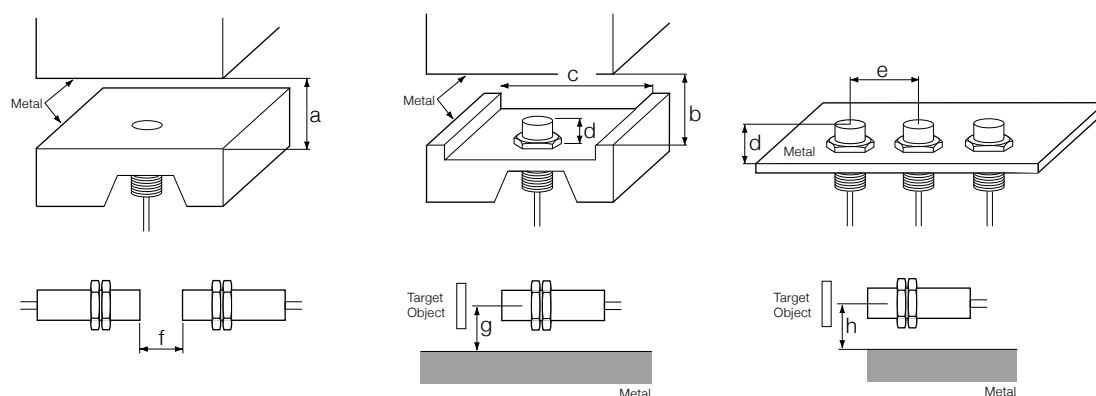
Operation Indication OFF ON

The load can be connected to either side of the power source.

Note: indicates a load.

Installation / Effects of Surrounding Metal

Since the proximity sensor is affected by surrounding metal, install it remotely enough from the described dimensions.



(Unit: mm)

Model Number	a	b	c	d	e	f	g	h
APS30-34CK-Z	—	90	136	60	136	120	100	68

APS-GMC

APS-GMD






APS-GK

APS-30/31

APS-CK

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Connection and Operation/Dimensions

P L C H M I SENSOR ENCODER COUNTER INFORMATION Proximity
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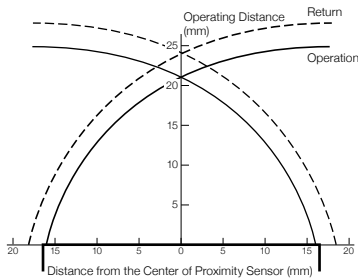
APS-GK

APS-30/31

APS-CK

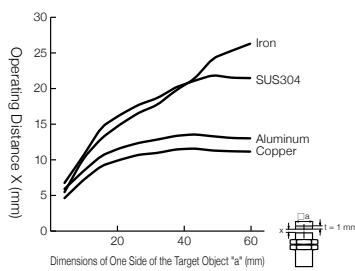
Detection Range Diagram (Representative Examples)

APS30-34CK-Z



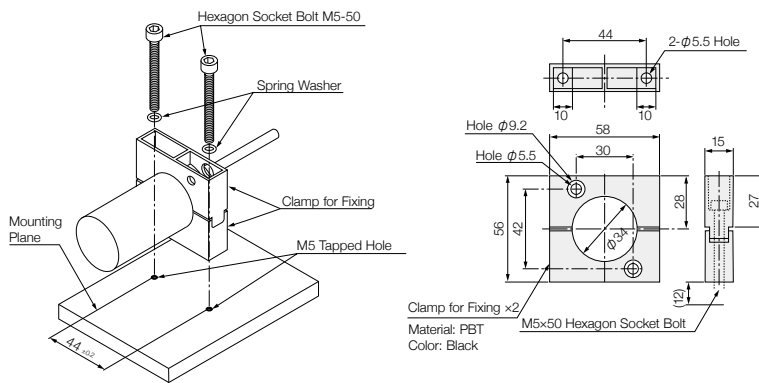
Shape Based Characteristics (Representative Examples)

APS30-34CK-Z



Installation (Unit: mm)

APS30-34CK-Z



Dimensions (Unit: mm)

APS30-34CK-Z

