

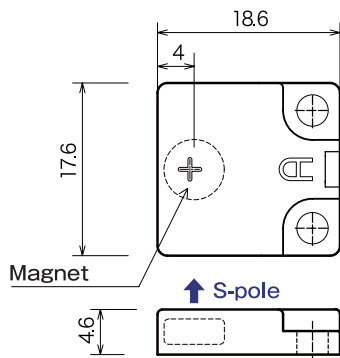
# New Product Information

## Metal Mag AG009K



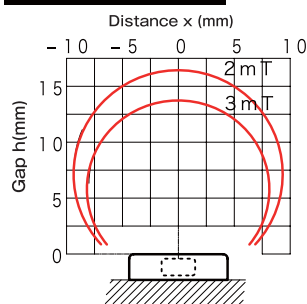
### Features

- Strong electric field generator in a zinc-die cast case, tough and resistant to corrosion
- Two M3 spanner screws fix the Mag firmly. Dust-repellent, waterproof and oil-resistant
- Excellent precision in combination with AH009 (sensitivity: 3 to 15 microns)

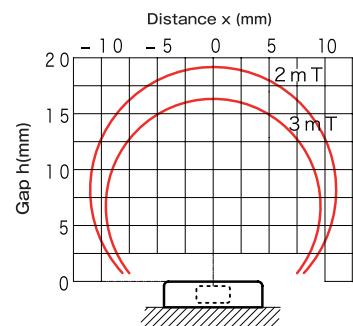


\* The case is shared with AH009 switch.

### Magnetic property \*S-pole



Mounting base : Nonmagnetic materials such as plastic and aluminum



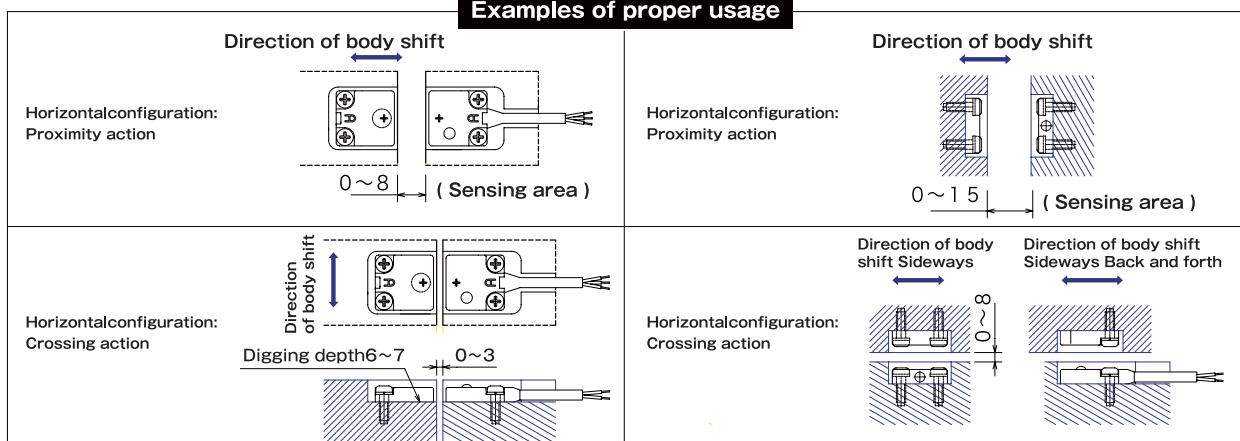
Mounting base : Iron

The area swells by approx. 20%, which yields increased sensitivity

### Major applications

- For high integrity proximity switches used at outdoor parking lot, rack house, etc.
- For proximity switches used on moving mechanical parts of construction machinery and special-purpose construction vehicles
- For proximity switches used on machine tools under hostile conditions such as dust, oil and water

### Examples of proper usage



### Product Number

Item No.	Specifications
AG009K	Electric field generator in metal case



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# New Product Information

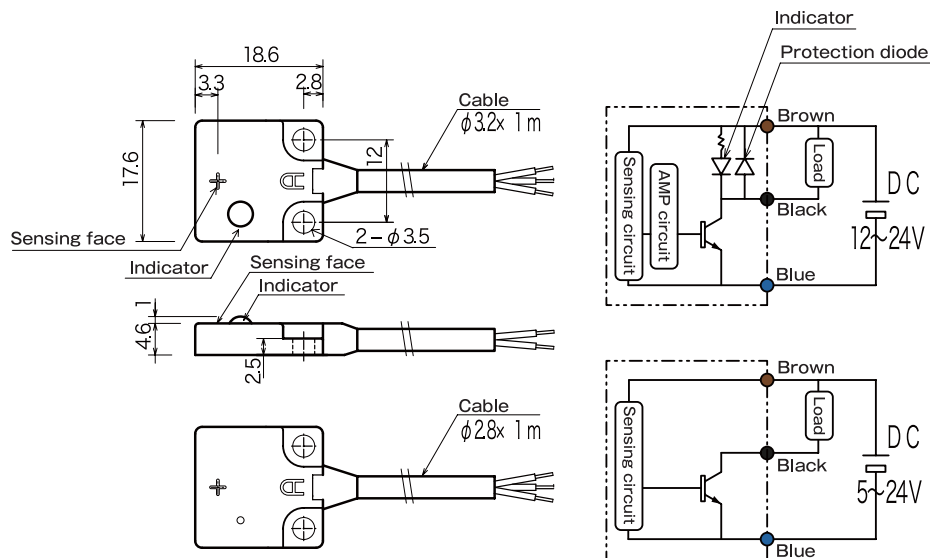
## Magnetic Proximity Switch AH009



### Features

- Made from zinc die-cast, the tough metal case resists corrosion, water as well as oil.
- Two M3 spanner screws fix the switch firmly: the degree of protection is IP67
- The lineup includes 3 variations: type "A" and "B" for high output current, and type "E" of economical feature.
- Capable of highly accurate performance even installed sunken in a moving / iron unit.

AH009A  
AH009B  
Dimension  
and  
circuit diagram



AH009E  
Dimension  
and  
circuit diagram

### Specifications

P N	AN009A,AH009B	AH009E
Sensing pole	S-pole	
Magnetic sensitivity	2.5~3.5mT(25~35Gauss)	
Accuracy of operating point	Error margin $\leq 0.02$ (Perpendicular to the magnetic property with a gap $\leq 5$ )	
Response time	5 $\mu$ sec or less	
Supply voltage	DC12~24V	DC5~24V
Output form A	NPN-OC A Operation (Turned on, when sensing object approaching)Cable:Gray	NPN-OC A Operation (Turned on, when sensing object approaching)Cable:Gray
Output form B	NPN-OC B Operation (Turned off, when sensing object approaching)Cable:Black	
Output current	Continuous power distribution 80mA, 50% power distribution (a period of 10 minutes max.) 120mA	
Consumption current	15mA max.(sensing circuit side)	
Withstand voltage	AC1000V, Between live part and case (tested at 1500V, for 20 sec.)	
Cable length	A 1 m cable included as standard equipment (400 yen/m for cable extension)	
Operating temperature range	- 20°C to 85°C	
Degree of protection	IP 67, Humidity 20% to 95%	
Resistance to vibration	10~55Hz 1.5mm double vibration for 2H to each directions of X, Y, Z.	
Resistance to impact	500m/s <sup>2</sup> 3 times to each directions of X,Y,Z.	
Fatening screw	SUS, 1.5N · m when using machine screw. A proper loosening prevention treatment; e.g., spring washer, glue adhesion, is required.	

### Product Number

Product Number	Specifications
AH009A	Output form A operation (Turned on when sensing object approaching)
AH009B	Output form B operation (Turned off when sensing object approaching)
AH009E	A operation 15mA Without indicator



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