

## **IM12 Proximity Sensor**

Features of metal cylindrical proximity sensor:

- Reverse polarity protection;
- Short-circuit protection (IM8、IM12、IM18、IM30 DC type);

## Description

IM12 Series inductive sensor

Features of metal cylindrical proximity sensor:

- Reverse polarity protection;
- Short-circuit protection (IM8、IM12、IM18、IM30 DC type);
- Long-life & high reliability;
- Yellow Led indicates working status of sensor;
- Economical and easy to operate;
- Alternatives for mini switch and limit switch;
- Delay at power-up,guard against false pulse;

Proximity sensor

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Model			IM12B-02-	IM12N-02-	IM12B-04-	IM12N-04-	
			NO	РО	NO	РО	
	IM12B-02-DO	IM12N-04-DO	IM12B-02-	IM12N-02-	IM12B-04-	IM12N-04-	
	IM12B-02-DC	IM12N-04-DC	NC	PC	NC	PC	
	IM12B-02-DO-H3	IM12N-04-DO-H3	IM12B-02-	IM12N-02-	IM12B-04-	IM12N-04-	
	IM12B-02-DC-H3	IM12B-04-DC-H3	NO-H3	РО-НЗ	NO-H3	РО-НЗ	
			IM12B-02-	IM12N-02-	IM12B-04-	IM12N-04-	
			NC-H3	PC-H3	NC-H3	РС-НЗ	
General parameters:							
Installation method	Flush style	Non-flush	Flush style	Non-flush	Flush style	Non-flush	
Detection distance	2mm±10%	4mm±10%	2mm±10%	4mm±10%	2mm±10%	4mm±10%	
Return difference	≤15%						
Set distance	0~1.6 mm	0~3.2 mm	0~1.6 mm	0~3.2 mm	0~1.6 mm	0~3.2 mm	
Mechanical/El	ectronic Parameters	:					
Operating voltage	10-30VDC						
No-load current	Max.5mA						
Voltage drop	Max.2.5V Max.1.4V						
Operating frequency	800Hz 400Hz 500Hz						
Indicator light	ator light Operation indicator yellow						
Function	Short circuit protection, over voltage protection, reverse polarity protection						

Action mode	Normally Closed (DC)/Normally OpenNormally closed (NC)/Normally open (NO) depending DO) depending on the specific model on the specific model				
Control output	Transistor	NPN	PNP	NPN	PNP
Wiring	mm2,standard wire length: 2m; H3	Direct outlet,DC3 wire,φ4,3*0.2 mm2,standard wire length: 2m; H3 model is connector type			
Protection rating	IP67				
Working environment	-25°C~70°C 35~95% RH				
Dimensions	Please check the dimension drawing	Please check t	he dimension	drawing	

Proximity sensor							
Model	IM12B-04-NO	112B-04-NO IM12B-04-PO		IM12N-08-NO	IM12N-08-PO		
	IM12B-04-NO-H3	IM12B-04-PO-H3		IM12N-08-NO-H3	IM12N-08-PO-H3		
General parameters:							
Installation method	Flush style			Non-flush			
Detection distance	4 mm±10%			8 mm±10%			
Return difference	≤15%						
Set distance	0~3.2 mm			0~6.4 mm			
Mechanical/Electronic Parameters:							
Operating voltage	10-30VDC						
No-load current	Max.5mA						
Voltage drop	Max.1.4V						

Operating frequency400Hz			100Hz			
Indicator light	Operation indicator yellow					
Function	Short circuit protection, over voltage protection, reverse polarity protection					
Action mode	Normally closed (NC)/Normally open (NO) depending on the specific model					
Control output	NPN	PNP	NPN	PNP		
Wiring	Direct outlet,DC3 wire,φ4,3*0.2 mm2,standard wire length: 2m; H3 model is connector type					
Protection rating	IP67					
Working environment	-25°C~70°C 35~95% RH					
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