



IM18 Proximity sensor

Features of metal cylindrical proximity sensor:

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

Description

IM18 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

Model	IM18B-05-DO	IM18N-08-DO	IM18B-05-NO	IM18N-05-PO	IM18B-08-NO	IM18N-08-PO
	IM18B-05-DC	IM18N-08-DC	IM18B-05-NC	IM18N-05-PC	IM18B-08-NC	IM18N-08-PC
	IM18B-05-DO-H3	IM18N-08-DO-H3	IM18B-05-NO-H3	IM18N-05-PO-H3	IM18B-08-NO-H3	IM18N-08-PO-H3
	IM18B-05-DC-H3	IM18B-08-DC-H3	IM18B-05-NC-H3	IM18N-05-PC-H3	IM18B-08-NC-H3	IM18N-08-PC-H3
General parameters:						
Installation method	Flush style	Non-flush	Flush style	Non-flush	Flush style	Non-flush
Detection distance	5mm±10%	8mm±10%	5mm±10%	5mm±10%	8mm±10%	8mm±10%
Return difference	≤15%					
Set distance	0~4mm	0~6.4mm	0~4 mm	0~6.4 mm	0~1.6 mm	0~3.2 mm
Mechanical/Electronic Parameters:						
Operating voltage	10-30VDC					
No-load current	Max.5mA		Max.8mA			
Voltage drop	Max.2.5V		Max.1.7V			
Operating frequency	350Hz	200Hz	500Hz H3Model:350 Hz	300 Hz H3Model:200 Hz	500Hz H3Model:350 Hz	300 Hz H3Model:200 Hz
Indicator light	Operation indicator yellow					
Function	Short circuit protection,over voltage protection,reverse polarity protection					

Action mode	Normally closed (DC) / normally open (DO) depending on the specific model	Normally closed (NC)/Normally open (NO) depending on the specific model			
Control output	Transistor output	NPN	PNP	NPN	PNP
Wiring	Direct outlet,DC2 wire,φ5,2*0.3 mm2,standard wire length: 2m; H3 model is connector type	Direct outlet,DC3 wire,φ5,3*0.3 mm2,standard wire length: 2m; H3 model is connector type			
Protection rating	IP67				
Work temperature	-25°C~75°C (without freezing) 35~95% RH				
Dimensions	Please check the dimension drawing	Please check the dimension drawing			

Proximity sensor						
Model	IM18B-08-NO	IM18N-12-NO	IM18B-05-AO	IM18N-08-AO	IM18B-05-DO-H3	IM18N-08-DO-H3
	IM18B-08-PO	IM18N-12-PO	IM18B-05-AC	IM18N-08-AC	IM18B-05-DC-H3	IM18N-08-DC-H3
General parameters:						
Installation method	Flush style	Non-flush	Flush style	Non-flush	Flush style	Non-flush
Detection distance	8mm±10%	12mm±10%	5mm±10%	8mm±10%	5mm±10%	8mm±10%
Return difference	≤15%					

Set distance	0~6.4mm	0~9.6mm	0~4 mm	0~6.4 mm	0~4mm	0~6.4 mm
Mechanical/Electronic Parameters:						
Operating voltage	10-30VDC		24-240V AC		10-30VDC	
No-load current	Max.5mA					
Voltage drop	Max.1.3V		Max.8V		Max.2.5V	
Operating frequency	300Hz	150Hz	20Hz		350Hz	200Hz
Indicator light	Operation indicator yellow					
Function	Short circuit protection,over voltage protection,reverse polarity protection		over voltage protection		Short circuit protection,over voltage protection,reverse polarity protection	
Action mode	Normally open		Normally closed (AC)/Normally open(AO) depending on the specific model		Normally closed (DC)/Normally open(DO) depending on the specific model	
Control output	Transistor output		Single-stage SCR output		Transistor output	
Wiring	Direct outlet,DC3 wire,φ5,3*0.3 mm2,standard wire length: 2m		Direct outlet,AC2 wire,φ5,3*0.3 mm2,standard wire length: 2m;		DC2 wire, Connector outlet,PL01、 PL02、 PL03 optional,standard wire length: 2m	
Protection rating	IP67					
Work temperature	-25℃~75℃ (without freezing) 35~95% RH					
Dimensions	Please check the dimension drawing		Please check the dimension drawing			