



# IM30 Proximity sensor

Features of metal cylindrical proximity sensor:

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

## Description

IM30 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	IM30B-10-DO	IM30N-15-DO	IM30B-10-	IM30N-10-PO	IM30B-15-	IM30N-15-PO
	IM30B-10-DC	IM30N-15-DC	NO	IM30N-10-PC	NO	IM30N-15-PC

	IM30B-10-DO-H3	IM30N-15-DO-H3	IM30B-10-NC	IM30N-10-PO-H3	IM30B-15-NC	IM30N-15-PO-H3
	IM30B-10-DC-H3	IM30N-15-DC-H3	IM30B-10-NO-H3	IM30N-10-PC-H3	IM30B-15-NO-H3	IM30N-15-PC-H3
			IM30B-10-NC-H3		IM30B-15-NC-H3	
General parameters:						
Installation method	Flush style	Non-flush	Flush style	Non-flush	Flush style	Non-flush
Detection distance	10mm±10%	15mm±10%	10mm±10%	10mm±10%	15mm±10%	15mm±10%
Return difference	≤15%					
Set distance	0~8mm	0~12mm	0~8 mm	0~8 mm	0~12 mm	0~12 mm
Mechanical/Electronic Parameters:						
Operating voltage	10-30VDC					
No-load current			Max.5mA			
Voltage drop	Max.2.5V		Max.1.4V			
Operating frequency	200Hz H3Model:250 Hz	100Hz H3Model:100 Hz	400Hz H3Model:250 Hz	400 Hz H3Model:250 Hz	300Hz H3Model:100 Hz	300 Hz H3Model:100 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 (C) / normally open (O) depending on the specific model			

Control output	Transistor output	NPN	PNP	NPN	PNP
Wiring	Direct outlet,DC2wire,φ5,2*0.3 mm <sup>2</sup> ,standard wire length: 2m; H3 model is connector type(PL01、 PL02、 PL03)	Direct outlet,DC3 wire,φ5,2*0.3 mm <sup>2</sup> ,standard wire length: 2m; H3 model is connector type(PL01、 PL02、 PL03)			
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	IM30B-15-NO IM30B-15-PO	IM30N-22-NO IM30N-22-PO	IM30B-10-AO IM30B-10-AC	IM30N-15-AO IM30N-15-AC	IM30B-10-DO-H3 IM30B-10-DC-H3	IM30N-15-DO-H3 IM30N-15-DC-H3
General parameters:						
Installation method	Flush style	Non-flush	Flush style	Non-flush	Flush style	Non-flush
Detection distance	15mm±10%	22mm±10%	10mm±10%	15mm±10%	10mm±10%	15mm±10%
Return difference	≤15%					
Set distance	0~12mm	0~18mm	0~8 mm	0~12 mm	0~8mm	0~12 mm
Mechanical/Electronic Parameters:						
Operating voltage	10-30VDC		24-240V AC		10-30VDC	
No-load current	Max.5mA					

Voltage drop	Max.1.4V		Max.8V	Max.2.5V	
Operating frequency	300Hz	200Hz	20Hz	250Hz	150Hz
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	NPN/PNP		Single-stage SCR output	Transistor output	
Wiring	Direct outlet,DC3 wire, $\phi 5,3*0.3$ mm <sup>2</sup> ,standard wire length: 2m;		Direct outlet,AC2 wire, $\phi 5,3*0.3$ mm <sup>2</sup> ,standard wire length: 2m;	DC2wire,Connector outlet,PL01、 PL02、 PL03 optional,standard wire length: 2m;	
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		