M12/M18 Harsh Environment DC Plug in Proximity Switches PMS/PKS

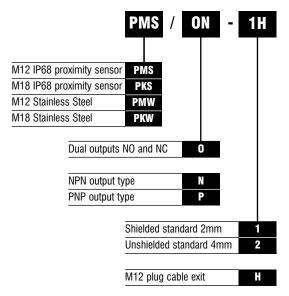


IP68 Inductive Proximity Switches 10-30VDC

- Double housing construction
- Machining oil resistant
- Immersion proof (IP68)
- Dual outputs NO and NC* in every sensor
- Abrasion resistant sensing face
- M12 plug in
- High electrical noise immunity (IEC801-4 III)
- High switching frequency
- Pin outputs already meet new European Directive
- Nominal sensing range: Shielded 2mm PMS Unshielded 4mm PMS



Options and ordering codes



Specification

Model	PMS		PKS	
Hysteresis	2.5-10%		2.5-10%	
Repeatability	5%		5%	
Supply voltage	10-30 VDC		10-30 VDC	
Ripple	10%		10%	
Maximum consumption	18mA		18mA	
Switching frequency	2kHz		1kHz	
Output type	NPN and PNP, antivalent, NO and NC			
Output state	(dual outputs NO and NC)			
Load current	10	100mA		00mA
Residual output voltage	1.2V max	ax IL=100mA 0.8		IL=100mA
Leakage current	<10µA		<10µA	
Time before switch operation	100ms		100ms	
Output current limit	-150mA		-450mA	
Short circuit protection	autoreset		autoreset	
Polarity reversal protection	yes		yes	
Inductive loads protection	yes		yes	
LED status indicator	yes (at the side)		yes (at the side)	
Insulation resistance	>2000M	to 2000VDC	>2000M	to 2000VDC
Dielectric strength	2000VAC 50Hz for 1 min		2000VAC 5	OHz for 1 min
Protection degree	IP68		IP68	
Temperature range	-25° +70°C		-25° +70°C	
Temperature drift	10% Sn		10% Sn	
Housing material	nickel-plated brass		nickel-plated brass	
Front material	PPS		PPS	
Tightening torque	10 Nm max		40 Nm max	
Ambient humidity	35%-85% r.h.		35%-85% r.h.	
Weight (approx.)	35g		70g	

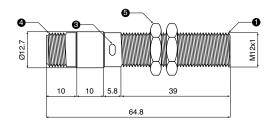
PMS/PKS/07/08 www.imopc.com

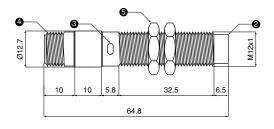
M12/M18 Harsh Environment DC Plug in Proximity Switches PMS/PKS continued



Dimensions (mm)

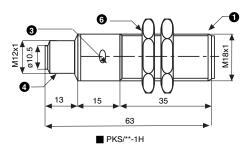
PMS

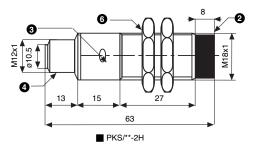




- 1) Shielded
 2) Unshielded
 3) LED (NO output energised)
 4) Connector CD12 series not included
 5) Tightening nuts 17mm A/F included
 6) Tightening nuts 24mm A/F included
 * Sometimes referred to as antivalent output

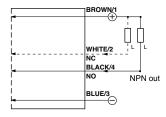
PKS



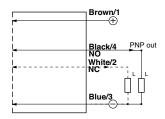


Wiring connections

NPN output

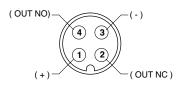


PNP output



Plug-pin connections

M12 plug connector



From 1st January 1996, normally closed (NC) plug-in sensors must have the output on pin 2 according to European Directives. The IMO sensors already meet this standard.