

1.1

SERIE	PMS-PKS/PMW-PKW
<b>Inductive proximity sensors IP67/68 for harsh environments M12 and M18 - DC</b>	
<ul style="list-style-type: none"> <li>◆ Innovative housing (double enclosure)</li> <li>◆ Cutting oils resistant (for machines tool)</li> <li>◆ Immersion proof (sealing IP67/68)</li> <li>◆ High frequency switching</li> <li>◆ Output selection NO/NC (for reducing stock)</li> <li>◆ LED indicator visible at wide angle</li> <li>◆ M12 plug cable exit</li> <li>◆ Complete protection against electrical damages</li> </ul>	

DIMENSIONAL DRAWING	
<b>Key</b>	
<ul style="list-style-type: none"> <li>1 M12 plug cable exit</li> <li>2 LED status indicator (NO output energized)</li> <li>3 Shielded version</li> <li>4 Unshielded version</li> </ul>	
Connectors series <b>CD</b> serie	

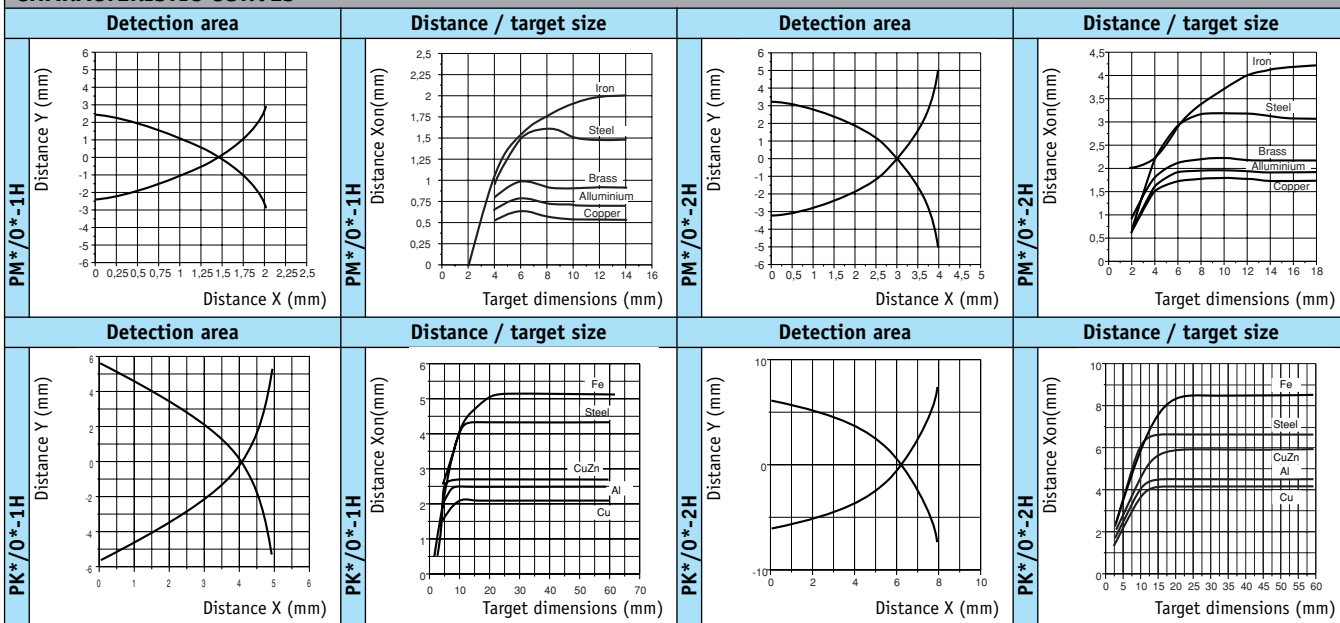
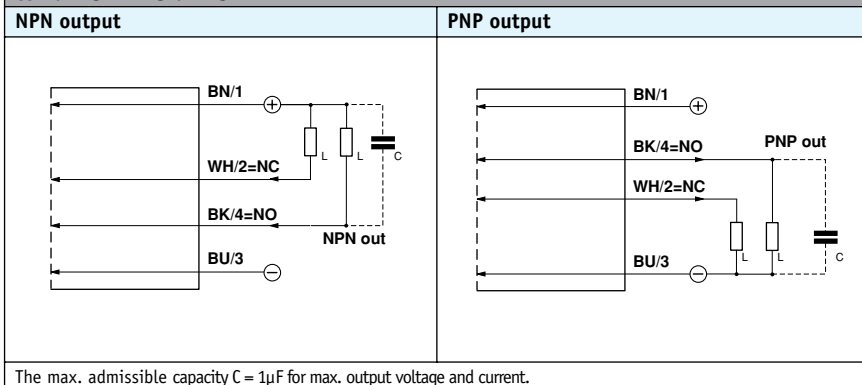


ORDERING SYSTEM			
serie		<b>PMS / ON - 1 H</b>	
M12 inductive proximity sensors (IP67/68)	<b>PMS</b>		
M18 inductive proximity sensors (IP67/68)	<b>PKS</b>		
M12 inductive proximity sensors (IP67/68) <sup>(1)</sup>	<b>PMW</b>		
M18 inductive proximity sensors (IP67/68) <sup>(1)</sup>	<b>PKW</b>		
output state			
NO/NC complementary output	<b>O</b>		
logic			
NPN output	<b>N</b>		
PNP output	<b>P</b>		
			cable exit <b>H</b> M12 plug cable exit sensing range <b>1</b> standard shielded (2/5mm) <b>2</b> unshielded (4/8mm)
(1) Stainless steel housing version			

**SPECIFICATIONS**

Model	<b>PM*/O*-1H</b>	<b>PM*/O*-2H</b>	<b>PK*/O*-1H</b>	<b>PK*/O*-2H</b>
Nominal sensing distance Sn <sup>(1)</sup>	2mm	4mm	5mm	8mm
Operating distance	0...1,62mm	0...3,24mm	0...4,05mm	0...6,48mm
Differential travel	2...10%			
Repeat accuracy	5%			
Operating voltage	10-30Vdc			
Ripple	±10%			
No-load supply current	18mA			
Load current	≤100mA		≤400mA	
Leakage current	±10µA			
Voltage drop	1,2V max.		0,8V max.	
Output type	NPN or PNP NO/NC complementary			
Switching frequency	2KHz		1KHz	
Time delay before availability	100ms			
Supply electrical protections	polarity reversal, transient			
Output electrical protections	short circuit (autoreset)			
Temperature range	-25∞...+70∞C			
Temperature drift	10% Sr			
Protection degree (DIN 40 050)	IEC IP67/68 <sup>(2)</sup>			
LED indicators	Yellow (NO output energized)			
Housing material	nickel-plated brass (PMS-PKS) - stainless steel AISI303 (PMW-PKW)			
Sensing face material	PPS		PSU	
Tightening torque	10Nm		40Nm	
Weight (approx.)	35g		70g	

(1) with 12x12mm FE360 target (PMS), 18x18mm FE360 target (PKS); (2) only in fully locked position with its plugs. **Note.** Good chemicals and oils resistance, but test should be made in advance when using in harsh environment.

**CHARACTERISTIC CURVES**

**WIRING DIAGRAMS**

**CONNECTORS**
