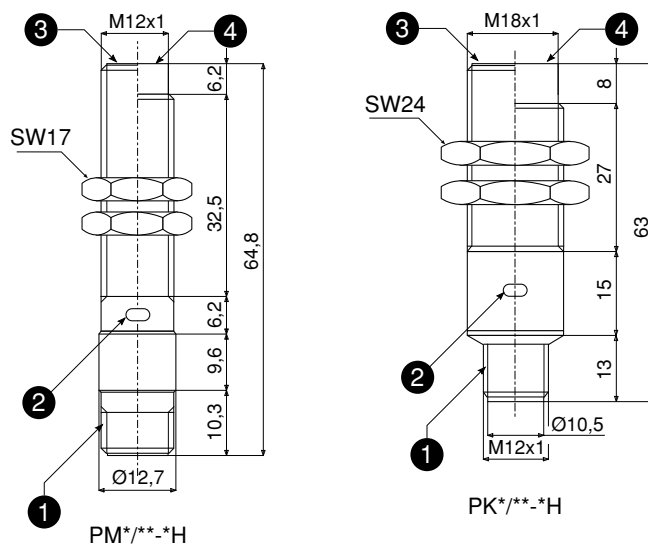


SERIE PMS-PKS/PMW-PKW


**Inductive proximity sensors IP67/68
for harsh environments
M12 and M18 - DC**

- ◆ Innovative housing (double enclosure)
- ◆ Cutting oils resistant (for machines tool)
- ◆ Immersion proof (sealing IP67/68)
- ◆ High frequency switching
- ◆ Output selection NO/NC (for reducing stock)
- ◆ LED indicator visible at wide angle
- ◆ M12 plug cable exit
- ◆ Complete protection against electrical damages

DIMENSIONAL DRAWING

Key

- | | |
|---|--|
| 1 | M12 plug cable exit |
| 2 | LED status indicator (NO output energized) |
| 3 | Shielded version |
| 4 | Unshielded version |

Connectors series **CD** serie


ORDERING SYSTEM

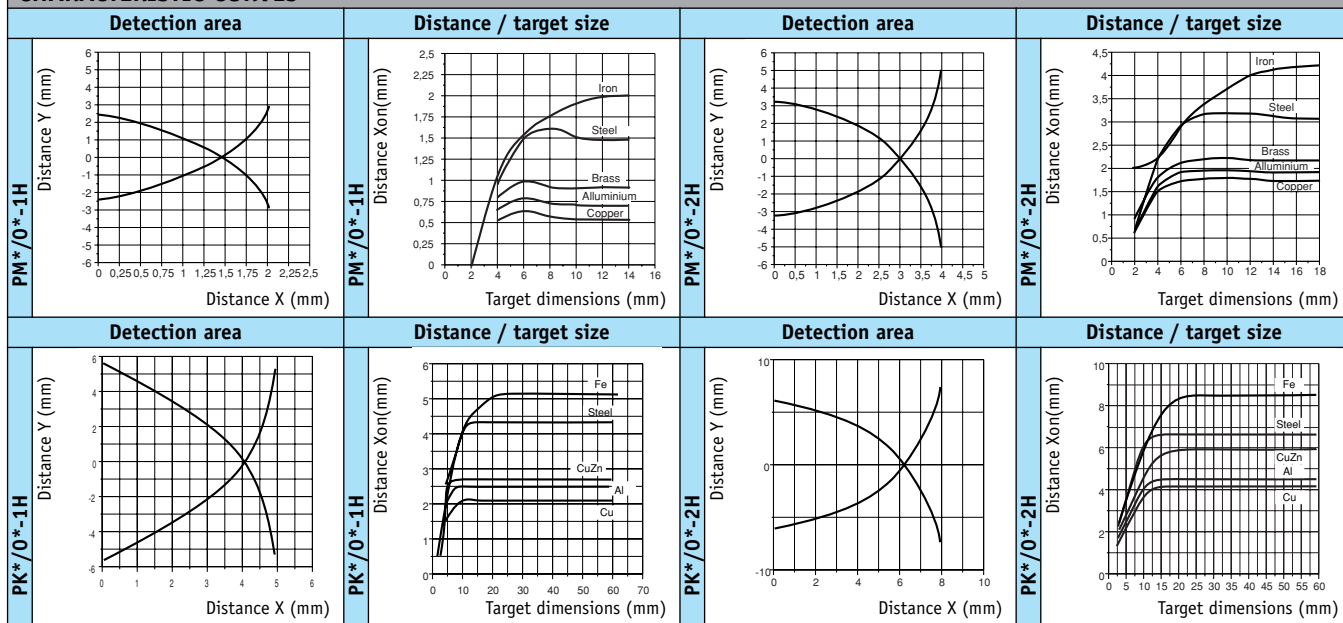
P M S / O N - 1 H			
serie			cable exit
M12 inductive proximity sensors (IP67/68)	PMS		H M12 plug cable exit
M18 inductive proximity sensors (IP67/68)	PKS		
M12 inductive proximity sensors (IP67/68) ⁽¹⁾	PMW		
M18 inductive proximity sensors (IP67/68) ⁽¹⁾	PKW		
output state			sensing range
NO/NC complementary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

SPECIFICATIONS

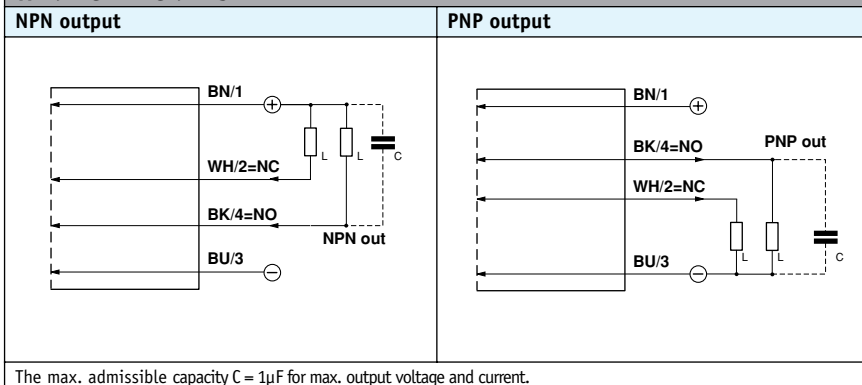
Model	PM*/O*-1H	PM*/O*-2H	PK*/O*-1H	PK*/O*-2H
Nominal sensing distance Sn ⁽¹⁾	2mm	4mm	5mm	8mm
Operating distance	0...1,62mm	0...3,24mm	0...4,05mm	0...6,48mm
Differential travel	2...10%			
Repeat accuracy	5%			
Operating voltage	10-30Vdc			
Ripple	£10%			
No-load supply current	18mA			
Load current	≤100mA		≤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 ⁽²⁾			
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



The max. admissible capacity $C = 1\mu F$ for max. output voltage and current.

CONNECTORS

