



PKW Series Stainless Steel Prox



PKW Series M18 (18mm) DC Stainless Steel Inductive Proximity Sensors

- Low cost/high performance
- IP67 protection degree
- LED status indicators are visible at a wide angle
- Triple distance models sense all metals virtually the same distance, have one piece stainless design, and are fully submersible up to 290 Psi. Axial models have IP68 protection degree.

PKW Series DC Inductive Prox Selection Chart							
Part Number	Sensing Range	Housing	Output State*	Logic	Connection	Wiring	Dimensions
Standard Distance							
PKW-0N-1H	5mm (0.197in)	Shielded	N.O./N.C	NPN	M12 (12mm) connector	Diagram 1	Figure 1
PKW-0P-1H				PNP	M12 (12mm) connector	Diagram 1	Figure 1
Extended Distance							
PKW-0N-2H	8mm (0.315in)	Unshielded	N.O./N.C	NPN	M12 (12mm) connector	Diagram 1	Figure 1
PKW-0P-2H				PNP	M12 (12mm) connector	Diagram 1	Figure 1
Triple Distance							
PKW-AN-5A	10mm (0.394in)	Shielded	N.O	NPN	2m (6.5') axial cable	Diagram 2	Figure 2
PKW-AP-5A				PNP	2m (6.5') axial cable	Diagram 2	Figure 2
PKW-AN-5H				NPN	M12 (12mm) connector	Diagram 2	Figure 3
PKW-AP-5H				PNP	M12 (12mm) connector	Diagram 2	Figure 3

Wiring Diagrams

Diagram 1

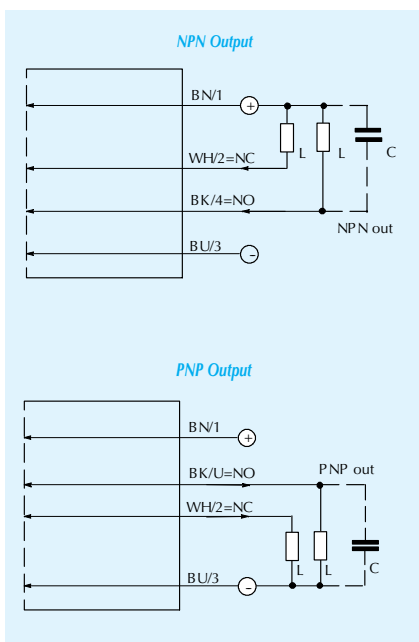
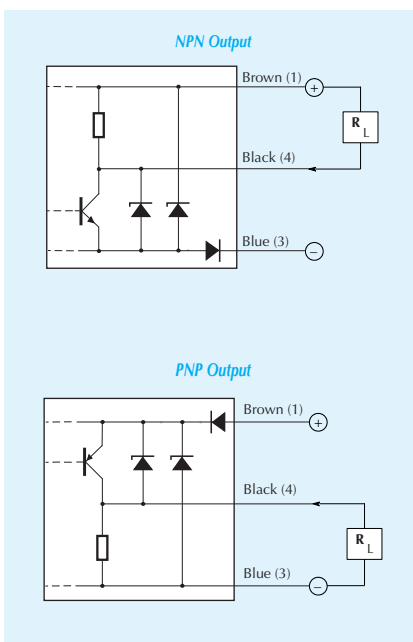
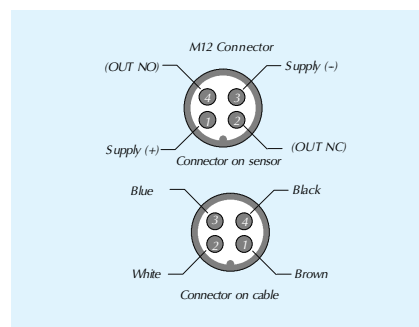


Diagram 2



Connectors

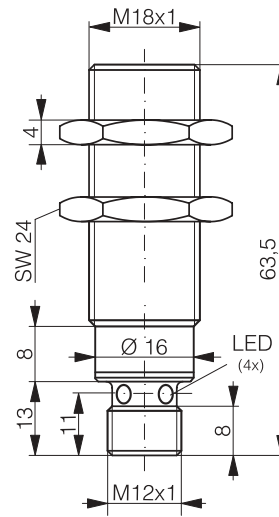


Sensors

Sensors & Sensors

Sensors & Sensors

Figure 3





Glossary: Centsable™ Proximity Sensors

Material Influence

The nominal sensing distance **S(n)** is defined using precisely defined measuring conditions (see **Operating Distance**). Other conditions may result in a reduction of the operating distance. The tables below show the influence different target materials have on the operating distances of the sensors.

Material Influence: Table 1

Target Material	Operating distance
Steel type FE 360	$S(n) \times 1.00$
Brass	$S(n) \times 0.64$
Aluminum	$S(n) \times 0.55$
Copper	$S(n) \times 0.51$
Stainless steel (V2A)	$S(n) \times 0.85$

When using foils, an **increase** in the usable operating distance can be expected.

Material Influence: Table 2

Target Material	Operating distance
Steel type FE 360	$S(n) \times 1.00$
Brass	$S(n) \times 0.44$
Aluminum	$S(n) \times 0.36$
Copper	$S(n) \times 0.32$
Stainless steel (V2A)	$S(n) \times 0.69$

When using foils, an **increase** in the usable operating distance can be expected.

Material Influence: Table 3

Target Material	Operating distance
Steel type FE 360	$S(n) \times 1.00$
Brass	$S(n) \times 1.00$
Aluminum	$S(n) \times 1.30$
Copper	$S(n) \times 0.89$
SS (1mm thick)	$S(n) \times 0.57$
SS (2mm thick)	$S(n) \times 0.90$

When using foils, a **decrease** in the usable operating distance can be expected.