



KPRM Series

All Metal Inductive Proximity Sensors

- Wear-resistant full stainless housing
- Equipped with the oil resistant cable
- High intensity LED operation indicator
- Long life cycle and high reliability



Ordering Information

KPRM **T** **B3** **61** **(3)**
 ① ② ③ ④

① Series	no mark	All Metal Proximity Sensors		
	T	All Metal PTFE Coated Proximity Sensors		
② Size/ Detecting Face		Size	Sensing Distance	Detecting Face
	B3*	M8	1mm	Flush
	E3*		2mm	Non-Flush
	E3**	M8	2mm	Flush
	F3**	(3-wire)	3mm	Non-Flush
	E4		2mm	Flush
	G4	M12	4mm	Non-Flush
	H5		5mm	Flush
	K5	M18	8mm	Non-Flush
	L6		10mm	Flush
P6	M30	15mm	Non-Flush	
③ Output/ Power Supply		Type	Output	Power Supply
	11	DC 3-wire	NPN NO	10 ~ 30VDC
	21		NPN NC	
	31		PNP NO	
	41		PNP NC	
	51	DC 2-wire	NO	
61	NC			
④ Cable Type	no mark	2m PUR cable		
	3***	M12 Connector		

* DC 2-wire only

** DC-3-wire only

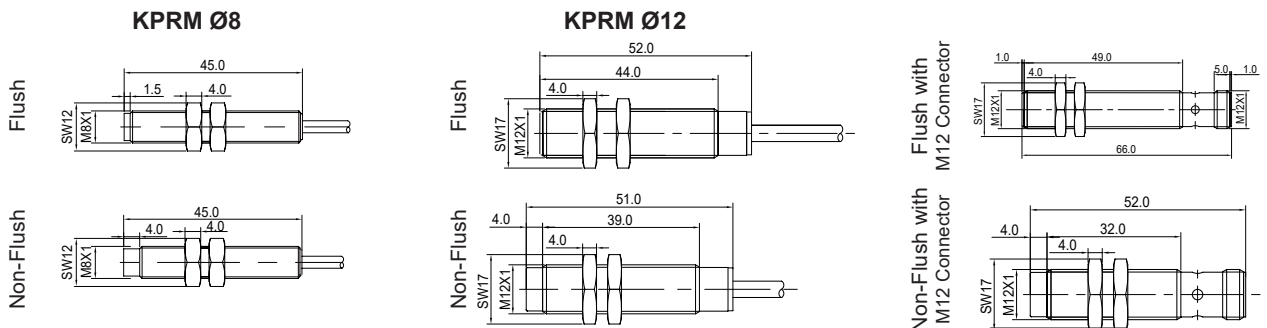
*** Not available for KPRM M8 type or KPRMT Series

Specifications

Detected Objects	Iron, Aluminum, Copper, Stainless steel, brass (Reduced sensing distances for non-iron metals)
Hysteresis	Max. 15% of sensing distance
Operation Indicator	LED
Protection Circuit	load short circuit protection, Surge protection circuit, Reverse polarity protection circuit
Ambient/Storage Temperature	-30°C ~ 85°C (with no icing)
Ambient/Storage Humidity	35% ~ 95% (with no icing)
Affection by Temperature	-25°C ~ 70°C Max. ±10% for sensing distance at ambient temperature 23°C
Affection by Voltage	Max. ±1% for sensing distance at rated voltage ±15%
Insulation Resistance	Over 50MΩ (at 500VDC megger)
Vibration	1.5mm amplitude at frequency of 10Hz ~ 55Hz in each of X, Y, Z direction for 2 hours
Shock	1000m/s ² (approx. 50G) in each of X, Y, Z direction for 10 times
Material	Stainless Steel
IP rate	IP68

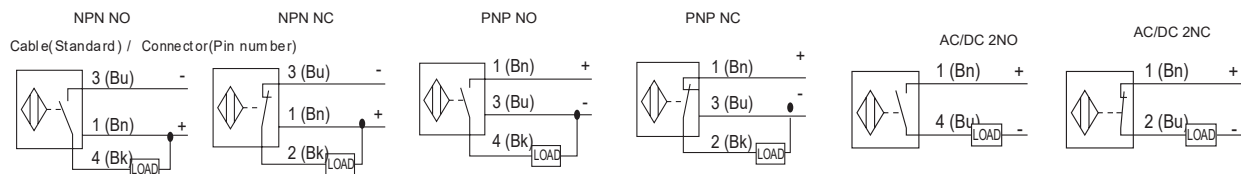
	DC 3-wire	DC 2-wire
Power Supply	10 ~ 30VDC	
Current Consumption	Max. 10mA	Max. 0.8mA
Voltage Drop	Residual Voltage : Max. 2V Load Current: Max. 200mA	Residual Voltage : Max 4V Load Current : 3mA ~ 100mA
Dielectric Strength	1,000VAC, 50/60Hz for 1 min	
Mex. Response Frequency	300Hz (KPRM Ø30 : 150Hz)	

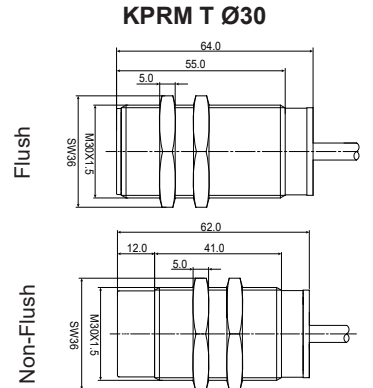
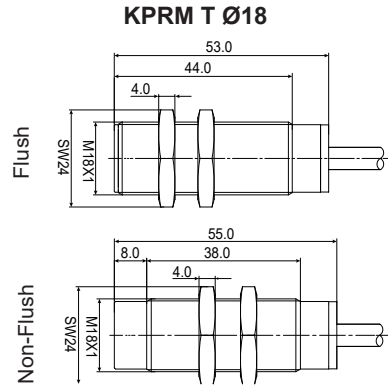
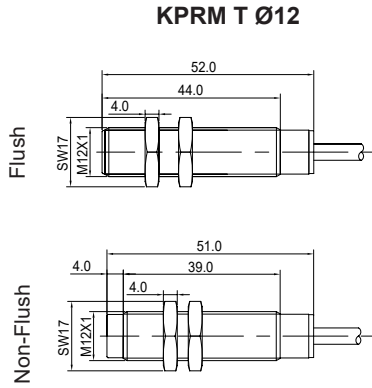
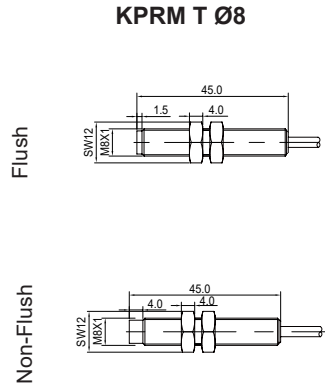
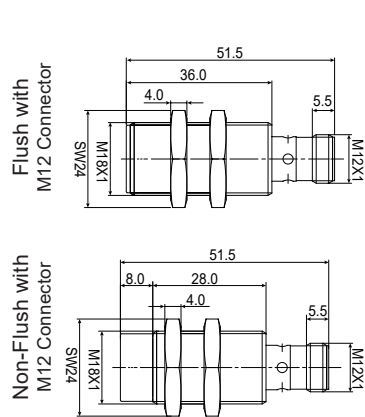
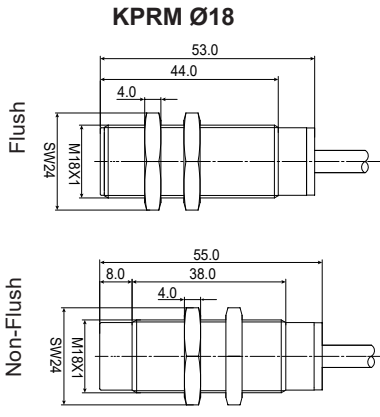
Dimensions (Unit: mm)



Wiring Diagram

Bu = Blue Bn = brown Bk = Black





Sensing Distance Feature Data by Target Material and Size

Sensing Distance Feature Data by Parallel(Left/Right) Movement

