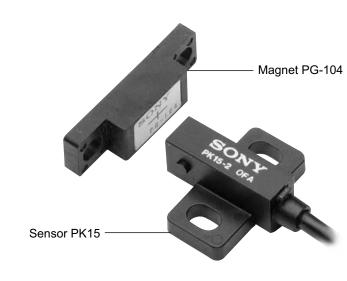
SET-P15/SET-P16

Magneswitch_{TM}

High accuracy non-contact magnetic switch

- SET-P15 can be used as a zero point for the DIGIRULER or as a limit switch.
- SET-P16 can be used as a zero point for the DIGIRULER (Interpolator MJ100/110).
- Excellent resistance to workshop conditions.
- Resistant to oil, dirt, vibrations and shocks.
- High accuracy: ± 3 μm
- Max. response frequency; 10 kHz
- Built-in circuit for direct connection to a control unit (SET-P15).
- Indication lamp (LED) for visual confirmation that the switching action is being made.

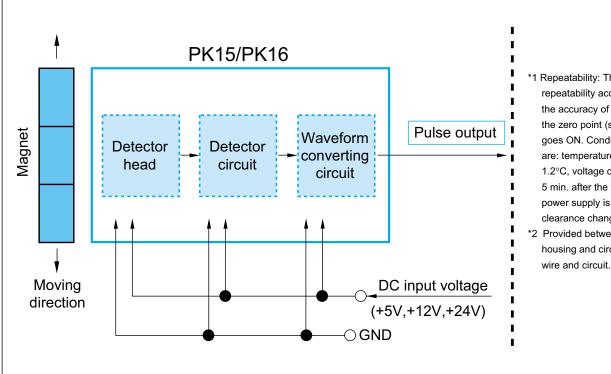


Specifications

Model		PK15			PK16
		-1	-2	-3	-4
Repeatability		± 3 μm (under same circumstance)*1			
Operating range		7.5 ± 2 mm/ 0.29" ± 0.07" (at 1 mm clearance)			
Clearance		Max. 3 mm/ 0.11"			
Max. response frequency		10 kHz			
Output	Circuit	NPN transistor, open collector			
	Operation	Turns ON in proximity			
	Contact capacity	Max. current 30 mA, max.voltage 30 V			
	Residual voltage	Max. 0.4 V, with 30 mA			
	Protection circuit	Surge killer; protection against reversed polarity			
Indication lamp		LED turns on, when activated			
Power supply		+5 V DC ± 10%	+12 V DC ± 10%	+24 V DC ± 10%	+5 V DC ± 10%
Power consumption		Max. 10 mA			
Protective design grade		Equivalent to IP67			
Insulation resistance		10MΩ (250 V DC)*2			
Vibration resistance		49 m/s2, 0 to 500 Hz			
Shock resistance		980 m/s²			
Operating temperature		-10°C to 60°C/ 14° F to 140° F			
Storage temperature		-20°C to 80°C/ -4°F to 176° F			
Cable length		1.5 m/ 4.9' (extendable up to 30 m/ 98.4*)			

^{*}The PK16 has a 6-pin mini DIN connector.

Configuration



- *1 Repeatability: This is unidirectional repeatability accuracy and indicates the accuracy of the position at which the zero point (stop) pulse output goes ON. Conditions for \pm 3 μm are: temperature change within ± 1.2°C, voltage change within \pm 1 % 5 min. after the voltage change power supply is turned on, clearance change less than 1 mm.
- *2 Provided between molded plastic housing and circuit, and shielding