

SET-P15

SET-P16

High accuracy non-contact magnetic switch

- SET-P15 can be used as a zero point for the DIGIRULER® (detector PL23) 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: $\pm 3 \mu\text{m}$
- 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	-1
Repeatability	$\pm 3 \mu\text{m}$ (under same circumstance)*1			
Operating range	$7.5 \pm 2 \text{ mm} / 0.29" \pm 0.07"$ (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 $\pm 10\%$	+12 V DC $\pm 10\%$	+24 V DC $\pm 10\%$	+5 V DC $\pm 10\%$
Power consumption	Max. 10 mA			
Protective design grade	Equivalent to IP67			
Insulation resistance	$10\text{M}\Omega$ (250 V DC)*2			
Vibration resistance	49 m/s ² , 0 to 500 Hz			
Shock resistance	980 m/s ²			
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

