

# 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 <sup>2</sup> , 0 to 500 Hz			
Shock resistance	980 m/s <sup>2</sup>			
Operating temperature	$-10^{\circ}\text{C}$ to $60^{\circ}\text{C}$ / $14^{\circ}\text{F}$ to $140^{\circ}\text{F}$			
Storage temperature	$-20^{\circ}\text{C}$ to $80^{\circ}\text{C}$ / $-4^{\circ}\text{F}$ to $176^{\circ}\text{F}$			
Cable length	1.5 m / 4.9' (extendable up to 30 m / 98.4')			

\*The PK16 has a 6-pin mini DIN connector.

### Configuration

