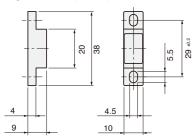
High-precision, non-contact Magneswitch

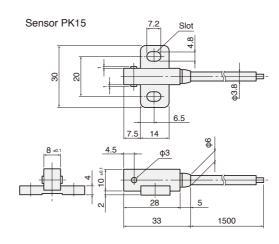
Magnet PG-104
Sensor PK15

Outer dimensions

SET-P15

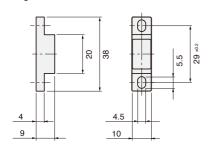
Magnet PG-104(PG-10)

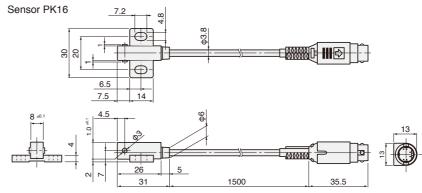




SET-P16

Magnet PG-104





* Photo shows SET-P15

Unit: mm

- SET-P15 can be used as a reference point for DIGIRULER or as a limit switch.
- SET-P16 can be used as a reference point for DIGIRULER (interpolator MJ100/110 used in combination).
- Resistant to oil, dust, vibration, and impact and withstands extreme work conditions Repeatability: ±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	-1
Repeatability		±3 µm (under same conditions)*1			
Operating range		7.5 ±2 mm (at 1 mm clearance)			
Clearance		Max. 3 mm			
Max. response frequency		10 kHz			
	Circuit	NPN transistor, open collector			
	Operation	Turns ON in proximity			
Output	Contact capacity	Max. current 30 mA, max. voltage 30 V			
	Residual voltage	Residual voltage Vo∟ = 0.4 V or less at Isink of 30 mA			
	Protection circuit	Surge killer, protection against reverse polarity			
Indication lamp		Red LED turns ON when activated			
Power supply		5V DC ±10 %	12V DC ±10 %	24V DC ±10 %	5V DC ±10 %
Current consumption		Max. 10 mA			
Protective design grade		IP67 or equivalent			
Insulation resistance		10 MΩ DC250 V*2			
Vibration resistance		49 m/s², 0 to 500 Hz			
Shock resistance		980 m/s²			
Operating temperature		−10 °C to 60 °C			
Storage temperature		−20 °C to 80 °C			
Cable length		1.5 m/4.9' (expandable up to 30 m/98.4')			

^{*1} Repeatability

This is unidirectional repeatability accuracy and indicates the accuracy of the position at which the reference point (stop) pulse output goes ON.

Conditions for accuracy ±3 µm: temperature change within ±1.2°C, voltage change within ±1% 5 min. after the power supply is turned ON, clearance variation 1 mm

*2 Provided between molded plastic housing and circuit, and shielded wire and circuit

