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POSITION SENSOR

PS1 Series – Surface Mount Fitting

PS1022

Design Features

- Adjustable with XY axis using the PM101/102 magnets
- Cable wiring from the Right of the package
- Repeatability of operation
- Shunt or direct magnet operation
- Multiple Mode of Operation



Product Comments

- Robust Nylon Housing
- Normally Closed
- Surface Mounted by fixing screws
- Fully encapsulated
- Matching Package Operating Magnet PM101 or PM102

Typical Applications

- Door Interlocks
- Hook Switches
- Security Systems
- Safety Interlocks
- Position Indication

Material, Design and Operation

Mounting	Surface
Material:	Nylon 6.6
Contact Form:	Form B - SPST
Contact Material:	Ruthenium
Maximum Switching Volts:	100 VAC
Maximum Switching Current:	0.3A
Switching Action:	SPST Normally Closed
Maximum Power:	3 Watts
Housing Temperature Range °C:	100
Connection Type:	Stripped Cables
Cable Type:	2 x 24AWG, 7/0.2mm PVC Insulated 0.5M long
Operating Temperature Range °C:	70
Actuation Method:	Magnetic
Mounting Shock:	50g for 11ms duration
Mounting Vibration:	35g up to 500Hz
Magnetic Approach:	Direct Axis , Parallel Axis

Technical drawing of the PM101 component, showing front and side views with dimensions in mm and inches.

Front View Dimensions:

- Top left corner: 3.75 (0.15)
- Top center: 21 (0.83)
- Top right corner: 5 (0.2)
- Bottom left corner: R1.6 (0.06)
- Bottom center: 28.5 (1.12)

Side View Dimensions:

- Top left corner: 9.5 (0.37)
- Top center: 6.4 (0.25)
- Bottom left corner: 3.3 (0.13)
- Bottom center: 5 (0.2)
- Bottom right corner: 19.5 (0.77)

Diagram showing the assembly of three metal strips (1, 2, 3) with dimensions D1 and D2.

separate distance (all models)
n (0.39)
(0.12)



MODE
OPERA

- 1 Side by
- 2 End to
- 3 Magn

MODES OF OPERATION

- 1 Side by side
- 2 End to end
- 3 Magnetic shunt