

Wiper

For SP Membrane Sensor



Features:

- Extremely flat membrane foil potentiometer
- Can be operated by hand (input) or wiper (tap)
- Simple adjustment to customer design
- Ultra-thin potentiometer
- Operated by hand or wiper
- Easy adaption to customer-specific designs

Specifications:

Use With	: Membrane Position Sensors
Force Range	: 3N
Overall Length	: 14mm
Thread Size - Metric	: M6 × 0.75
Tip / Nozzle Style	: Polyoxymethylene
Tip Length	: 2mm
Tip Size	: 2.7mm

Electrical Specifications:

	Standard	Hybrid	Magnet	Options
Resistance	2.5kΩ per 100mm length ±30%			> 2.5kΩ/100mm
Resistance range	±30%	±30%	±30%	<30% on request
Independence linearity	±2%	±2%	±2%	<2.0% on request
Repeat accuracy	determined by the wiper		≥10μm (2)	-

Mechanical Specifications:

	Standard	Hybrid	Magnet	Options
Life cycle mechanical activity(2)	>1 Mio.	>3 Mio.	>20 Mio.	-
Height	ca. 0.5mm	ca. 0.7mm	ca. 1.0mm	-
Wiper force	(1 to 3) N	(3 to 6) N	(1 to 3) N	<1.0N, depends on design
Adhesive foil	Duplo 360	Duplo 360	Duplo 360	Depending on surface and temperature

Environmental Specifications:

	Standard	Hybrid	Magnet	Options
Operating temperature	-40°C to +55°C	-25°C to +85°C	-25°C to +70°C	bis 115°C on request(3)
IP rating(1)	IP 65	IP 65	IP 65	depends on design

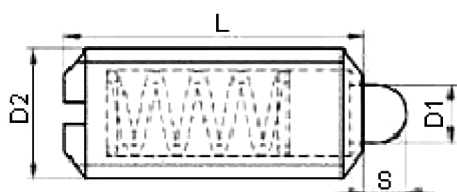
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Connections:

	Standard	Hybrid	Magnet	Options
Connector	3-pole jack connector Duflex (by Berg) (Jack 76785-301LF and housing 67013-003)			by demand



Dimensions:

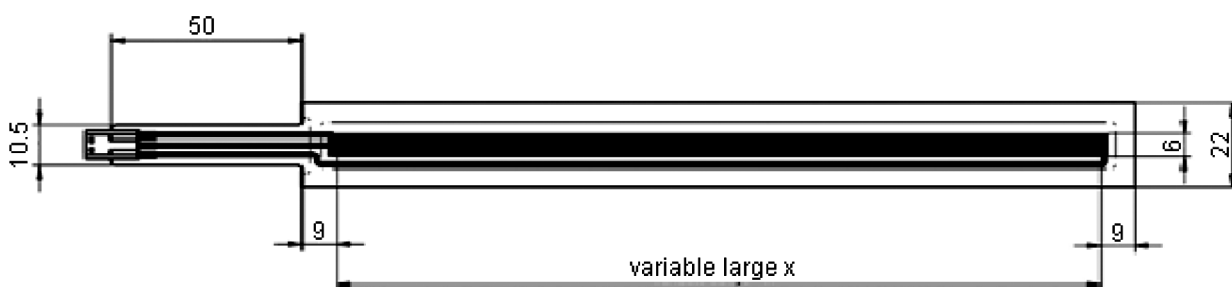
D1	L	S	D2	Wiper Force
M6 × 0.75	14	2	2.7	1 to 3N

Dimensions : Millimetres

Depending on design.

The life cycle and accuracy are depending on the wiper design.

Design and application have influence on the temperature range.



Dimensions : Millimetres

Composition (in the image from bottom to top)

Adhesive film, selection according to requirement.

Basic membrane with potentiometer resistance.

Spacers between upper and lower membrane.

Collector membrane as wiper tap for hand or wiper actuation.

Part Number Table

Description	Part Number
Wiper, for SP Membrane Sensors	WIPER 1-3N

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