Wiper

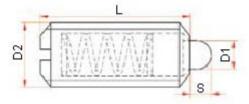
SP Membrane Sensors





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.



Dimensions

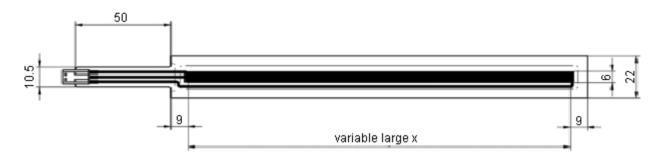
D1	L	S	D2	Wiper Force
M6 x 0.75	14	2	2.7	1 to 3N

Dimensions: Millimetees

Depending on design.

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

Design and application have influence on the temperature range.



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.

Wiper

SP Membrane Sensors



Electrical Specifications

	Standard	Hybrid	Magnet	Options
Resistance	2.5	2.5k Ω 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	determined by the wiper		-

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	(1.0 to 3.0) N	(3.0 to 6.0) N	(1.0 to 3.0) 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

Connections

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

Part Number Table

Description	Part Number
Wiper	Wiper 1-3N

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2009.

http://www.farnell.com http://www.newark.com http://www.cpc.co.uk

