

Water-Resistant Positioning Switches with Stoppers

Standard / Flanged / Screw / Flanged Screw / Ball Contact Screw

⚠ Although this is a Drip-Proof Type, it is not suited for use in environment in which coolant or cutting chips may fall on the product. For Mechanical / Electrical Specifications and Precautions for Use, refer to P.2188.

<p>Water-Resistant Switch - Standard (IP44)</p> <p>RoHS 10</p>	<p>MSTW-S MSTW-SD with LED</p> <p>Cable: Loose Wire 2 Conductors - Ø0.6 L 0.5 m Oil Resistant</p> <p>Stroke 0.5</p>	<p>MSTW-L</p> <p>Cable: Cab Tire 2 Conductors - Ø3 L 2 m, Oil Resistant Min. Bending Radius 7R</p> <p>Stroke 0.5</p>	<p>Application Example</p>
<p>RoHS 10</p>	<p>MSTF-S MSTF-SD with LED</p> <p>Cable: Loose Wire 2 Conductors - Ø0.6 L 0.5 m Oil Resistant</p> <p>Stroke 0.5</p>	<p>MSTF-L MSTF-LD with LED</p> <p>Cable: Cab Tire 2 Conductors - Ø3 L 2 m, Oil Resistant Min. Bending Radius 7R</p> <p>Stroke 0.5</p>	<p>Structure of Drip-Proof Type (IP44)</p> <p>Contact Piece (Hardened Steel) 50HRC</p> <p>Rubber Diaphragm</p> <p>Stopper Surface (Hardened Steel) 45HRC</p> <p>Contact Piece R2.5</p> <p>Operating Force 1N</p> <p>Operating Location (Stroke Center Vicinity)</p> <p>Stroke 0.5</p> <p>Operating Location (Stroke Center Vicinity)</p> <p>Stroke 0.5</p>
<p>RoHS 10</p>	<p>MSN-S MSN-SD with LED</p> <p>Cable: Loose Wire 2 Conductors - Ø0.6 L 0.5 m Oil Resistant</p> <p>Stroke 0.5</p>	<p>MSN-L MSN-LD with LED</p> <p>Cable: Cab Tire 2 Conductors - Ø3 L 2 m, Oil Resistant Min. Bending Radius 7R</p> <p>Stroke 0.5</p>	
<p>RoHS 10</p>	<p>MSNF-S MSNF-SD with LED</p> <p>Cable: Loose Wire 2 Conductors - Ø0.6 L 0.5 m Oil Resistant</p> <p>Stroke 0.5</p>	<p>MSNF-L MSNF-LD with LED</p> <p>Cable: Cab Tire 2 Conductors - Ø3 L 2 m, Oil Resistant Min. Bending Radius 7R</p> <p>Stroke 0.5</p>	
<p>RoHS 10</p>	<p>MSPM-S MSPM-SD with LED</p> <p>Cable: Loose Wire 2 Conductors - Ø0.6 L 0.5 m Oil Resistant</p> <p>Stroke 0.5</p>	<p>MSPM-L MSPM-LD with LED</p> <p>Cable: Cab Tire 2 Conductors - Ø3 L 2 m, Oil Resistant Min. Bending Radius 7R</p> <p>Stroke 0.5</p>	
<p>Accessories: (MSN-L / LD Only) Hex Nuts 2 pcs. (Thickness 3 Wrench Size 13) Toothed Washer 1 pc.</p>		<p>Material: Main Body: 416 Stainless Steel (45 HRC min.) Contact Part: 420 Stainless Steel (50 HRC min.)</p>	

Part Number Type	Stroke	Operating Point	Contact Force	Allowable Resistance Load	Shock Resistance Energy	Contact Mechanism
MSTW	0.5	Center Vicinity (Repeatability 0.01)	0.8N	3,000 N	0.2J	NO (Normally Open)
MSTF						
MSN						
MSNF						
MSPM						

Ⓜ MSTW is not available with LD (LED).

Part Number Example

Part Number

MSTW-SD
MSTF-L
MSN-S
MSNF-L
MSPM-LD

Use within the contact ratings.
Do not pull or twist the cable with a force of 30 N or more.

Waterproof Positioning Switches with Stoppers

Flanged Cylinder / Screw / Flanged Screw

⚠ Although this is a Drip-Proof Type, it is not suited for use in environment in which coolant or cutting chips may fall on the product. For Mechanical / Electrical Specifications and Precautions for Use, refer to P.2188.

<p>Waterproof Switch - Flanged Cylinder (IP67)</p> <p>RoHS 10</p>	<p>MSWF-LD with LED</p> <p>Cable: Cab Tire 2 Conductors - Ø3 L 2 m, Oil Resistant Min. Bending Radius 7R</p> <p>Stroke 0.3</p>	<p>Material: Main Body: 416 Stainless Steel (45 HRC min.) Contact Part: 420 Stainless Steel (50 HRC min.)</p>	<p>Application Example</p>
<p>RoHS 10</p>	<p>MSNW-SD with LED</p> <p>Cable: Loose Wire 2 Conductors - Ø0.6 L 0.5 m Oil Resistant</p> <p>Stroke 0.3</p>	<p>MSNW-L MSNW-LD with LED</p> <p>Cable: Cab Tire 2 Conductors - Ø3 L 2 m, Oil Resistant Min. Bending Radius 7R</p> <p>Stroke 0.3</p>	<p>Structure of Water-Proof Type IP67</p> <p>(Hardened Steel) 50HRC</p> <p>Rubber Boot</p> <p>Stopper Surface (Hardened Steel) 45HRC</p> <p>Contact Piece Stopping Position</p> <p>Operating Location (Stroke Center Vicinity)</p> <p>Stroke 0.3</p>
<p>RoHS 10</p>	<p>MSNWF-S MSNWF-SD with LED</p> <p>Cable: Loose Wire 2 Conductors - Ø0.6 L 0.5 m Oil Resistant</p> <p>Stroke 0.3</p>	<p>MSNWF-L MSNWF-LD with LED</p> <p>Cable: Cab Tire 2 Conductors - Ø3 L 2 m, Oil Resistant Min. Bending Radius 7R</p> <p>Stroke 0.3</p>	
<p>Accessories: (MSNW-L / LD Only) Hex Nuts 2 pcs. (Thickness 3 Wrench Size 13) Toothed Washer 1 pc.</p>		<p>Material: Main Body: 416 Stainless Steel (45 HRC min.) Contact Part: 420 Stainless Steel (50 HRC min.)</p>	

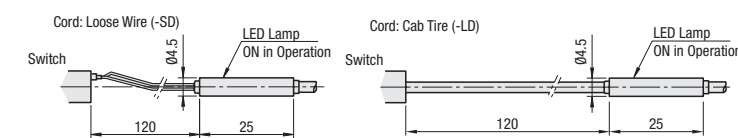
Part Number Type	Stroke	Operating Point	Contact Force	Allowable Static Load	Shock Resistance Energy	Contact Mechanism	Available Types					
							-S	-SD	-L	-LD		
MSWF	0.3	Center Vicinity (Repeatability 0.01)	1N	3000N	0.2J	NO (Normally Open)	1-9	10-20	1-9	10-20	1-9	10-20
MSNW							•	•	•	•	•	•
MSNWF							•	•	•	•	•	•

Part Number Example

Part Number

MSNW-L
MSNWF-S

Applicable to "with LED" Type



Use within the contact ratings.
Do not pull or twist the cable with a force of 30N or more.

Contact Method of Detected Subject (Common)

