

Heat Resistant Positioning Switches

Bolt Type/Ball Plunger/With Stopper

For Mechanical / Electrical Specifications and Precautions for Use, **P2095**

Bolt (IP65) **MSTKD-HR**

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

Contact Part	Main Body	Cable	Accessory
M Material	H Hardness	M Material	A Accessory
SUS420	45-50HRC	SUS303	Cable 2m, 2-Conductors Ø3, Heat Resistant Min. Bending Radius R7 Hex Nuts 2 pcs. (Thickness 3.2, Hex Socket 8)

Operating Temperature: ~ 200°C
The export application to the Ministry of Economy, Trade and Industry is necessary for exporting this product.

Part Number	Stroke S	Operating Point	Contact Force	Contact Logic	Unit Price	Volume Discount Rate
MSTKD-HR	2.8	0.3 from Tip (Repeatability 0.01 (Ambient Temp.))	1N	NO (Normally Open)	1 ~ 9 pc(s).	10~20

For orders larger than indicated quantity, please check with WOS.
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Ball Plunger (IP40) **MSPB-HR**

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

Contact Part	Main Body	Cable	Accessory
M Material	H Hardness	M Material	A Accessory
SUS440C	50-55HRC	SUS303	Cable 2m, 2-Conductors Ø3, Heat Resistance Min. Bending Radius R7 Hex Nut 2 pcs. (Coarse Thread JIS Class 3) Toothed Washer 1 pc.

Operating Temperature: ~ 200°C
The export application to the Ministry of Economy, Trade and Industry is necessary for exporting this product.

Part Number	Stroke S	Operating Point	Contact Force min.	Contact Force max.	Contact Logic	Unit Price	Volume Discount Rate
MSPB-HR	0.8	0.2 ~ 0.4 (Repeatability 0.01 (Ambient Temp.))	6N	13N	NO (Normally Open)	1 ~ 9 pc(s).	10~20

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With Stopper (IP40) **MSTB-HR**

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

Tip of Contact	Stopper	Main Body	Cable	Accessory
M Material	H Hardness	M Material	H Hardness	M Material
SUS420	45-50HRC	SUS420	50HRC	SUS416F

Cable: Cab Tie 2 Conductors - Ø3, L 2m, Oil Resistant Min. Bending Radius 7R

Operating Temperature: ~ 200°C
The export application to the Ministry of Economy, Trade and Industry is necessary for exporting this product.

Part Number	Stroke S	Operating Point	Contact Force	Allowable Static Load	Max. Impact Energy	Contact Logic	Unit Price	Volume Discount Rate
MSTB-HR	0.7	Center Vicinity (Repeatability 0.01 (Ambient Temp.))	1N	5000N	0.4J	NO (Normally Open)	1 ~ 9 pc(s).	10~20

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Mini Type with Stopper (IP67) **MSNWL-HR**

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

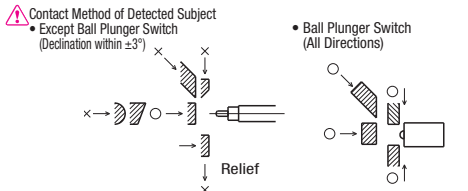
Contact Part	Main Body	Cable	Accessory
M Material	H Hardness	M Material	A Accessory
SUS416F	45HRC	SUS420	50HRC

Cable: Cab Tie 2 Conductors - Ø3, L 2m, Oil Resistant Min. Bending Radius 7R

Operating Temperature: ~ 200°C
The export application to the Ministry of Economy, Trade and Industry is necessary for exporting this product.

Part Number	Stroke S	Operating Point	Contact Force	Allowable Static Load	Max. Impact Energy	Contact Logic	Unit Price	Volume Discount Rate
MSNWL-HR	0.3	Center Vicinity (Repeatability 0.01 (Ambient Temp.))	1N	3000N	0.2J	NO (Normally Open)	1 ~ 9 pc(s).	10~20

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Positioning Switches

Spring Plunger/Ball Plunger

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Spring Plunger (IP40) **MSPSS N-MSPSS-D (With LED)**

Force must be applied normal to the switch. (Declination within ±3°)

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

Pin	Main Body	Cable	Accessory
M Material	H Hardness	M Material	A Accessory
SUS440C	50-55HRC	SUS303	Cable 2m, 2-Conductors Ø3, Oil Resistant Min. Bending Radius R7 Hex Nut 2 pcs. (Coarse Thread JIS Class 3) Toothed Washer 1 pc.

Part Number	M (Coarse)	d	Stroke S	Operating Point	Contact Force N min.	Contact Force N max.	Contact Logic	B	MSPSS Unit Price	MSPSS Volume Discount Rate	N-MSPSS-D Unit Price	N-MSPSS-D Volume Discount Rate	
MSPSS N-MSPSS-D	6	6	2.5	3	0.8 from Body End (Repeatability 0.01)	6	11	NO (Normally Open)	5	1 ~ 9 pc(s).	10~20	1 ~ 9 pc(s).	10~20
	8	8				6	11		7				

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Ball Plunger (IP40) **MSPB N-MSPB-D (With LED)**

Care must be taken for the object not to hit the switch body before hitting the operating point. Within 5°

• Possible to contact objects in all directions.

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

Ball	Main Body	Cable	Accessory
M Material	H Hardness	M Material	A Accessory
SUS440C	50-55HRC	SUS303	Cable 2m, 2-Conductors Ø3, Oil Resistant Min. Bending Radius R7 Hex Nut 2 pcs. (Coarse Thread JIS Class 3) Toothed Washer 1 pc.

Part Number	M (Coarse)	Stroke S	Operating Point	Repeatability	Contact Force N min.	Contact Force N max.	Contact Logic	L	d	B	MSPB Unit Price	MSPB Volume Discount Rate	N-MSPB-D Unit Price	N-MSPB-D Volume Discount Rate
MSPB N-MSPB-D	6	6	0.8	0.01	6	13	NO (Normally Open)	32	3	5	1 ~ 9 pc(s).	10~20	1 ~ 9 pc(s).	10~20
	6F	1												

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Ordering Example

Part Number
MSPSS6
MSPB6
N-MSPB-D6F

Ordering Example

Part Number
MSTKD-HR
MSPB-HR
MSTB-HR
MSNWL-HR