

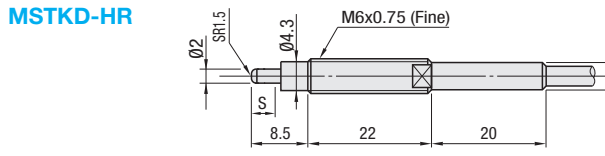
Heat Resistant Positioning Switches

Bolt Type/Ball Plunger/With Stopper

For Mechanical / Electrical Specifications and Precautions for Use, **P.2095**

Bolt (IP65)

RoHS 10

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	
EN 1.4029 Equiv.	45~50HRC	EN 1.4305 Equiv.	Cable 2m, 2-Conductors Ø3, Heat Resistant Min. Bending Radius R7 Hex Nut 2 pcs. (Thickness 3.2, Hex Socket 8) Toothed Washer 1 pc.

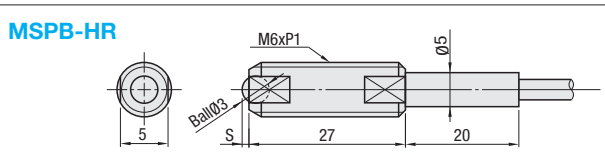
Operating Temperature: ~ 200°C
The export application to the Ministry of Economy, Trade and Industry is necessary for exporting this product.

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

For orders larger than indicated quantity, please check with WOS.
For Mechanical / Electrical Specifications and Precautions for Use, **P.2095**

Ball Plunger (IP40)

RoHS 10

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	
EN 1.4125 Equiv.	50~55HRC	EN 1.4305 Equiv.	Cable 2m, 2-Conductors Ø3, Heat Resistant Min. Bending Radius R7 Hex Nut 2 pcs. (Coarse Thread JIS Class 3) Toothed Washer 1 pc.

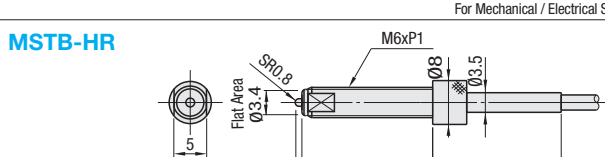
Operating Temperature: ~ 200°C
The export application to the Ministry of Economy, Trade and Industry is necessary for exporting this product.

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

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For Mechanical / Electrical Specifications and Precautions for Use, **P.2095**

With Stopper (IP40)

RoHS 10

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		
EN 1.4029 Equiv.	45~50HRC	EN 1.4005 Equiv.	Cable 2m, 2-Conductors Ø3, Heat Resistant Min. Bending Radius R7	Hex Nut 2 pcs. (Coarse Thread JIS Class 3) Toothed Washer 1 pc.

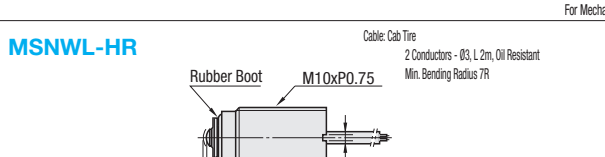
Operating Temperature: ~ 200°C
The export application to the Ministry of Economy, Trade and Industry is necessary for exporting this product.

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

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Mini Type with Stopper (IP67)

RoHS 10

MSNWL-HR


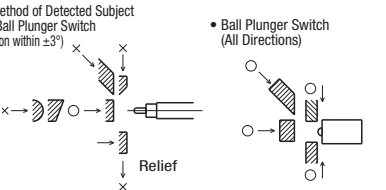
- Use within the contact ratings.
- Do not pull or twist the cable with 30N or more.

Tip of Contact	Stopper	Main Body	Cable	Accessory
M Material	H Hardness	M Material		
EN 1.4029 Equiv.	45~50HRC	EN 1.4005 Equiv.	Cable 2m, 2-Conductors Ø3, Heat Resistant 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	Allowable Static Load	Max. Impact Energy	Contact Logic	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
MSNWL-HR	0.3	Center Vicinity (Repeatability 0.01 (Ambient Temp.))	1N	3000N	0.2J	NO (Normally Open)		

For orders larger than indicated quantity, please check with WOS.



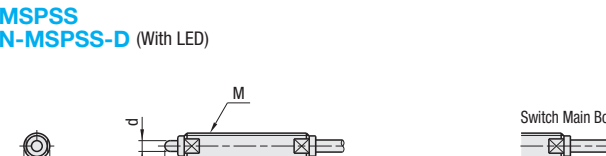
Positioning Switches

Spring Plunger/Ball Plunger

For Mechanical / Electrical Specifications and Precautions for Use, **P.2095**

Spring Plunger (IP40)

RoHS 10

MSPSS N-MSPSS-D (With LED)


- 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	
EN 1.4125 Equiv.	50~55HRC	EN 1.4305 Equiv.	Cable 2m, 2-Conductors Ø3, Oil Resistant 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 N min.	Contact Force N max.	Contact Logic	B	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
MSPSS N-MSPSS-D	6	0.8 from Body End (Repeatability 0.01)	6	11	NO (Normally Open)	5		

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

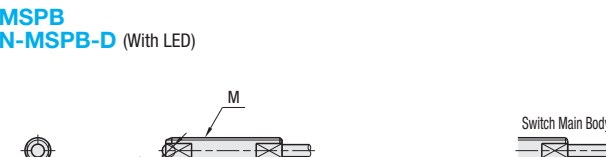
Part Number	Stroke S	Operating Point	Contact Force N min.	Contact Force N max.	Contact Logic	B	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
MSPSS N-MSPSS-D	8	0.8 from Body End (Repeatability 0.01)	6	11	NO (Normally Open)	7		

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

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Ball Plunger (IP40)

RoHS 10

MSPB N-MSPB-D (With LED)


- 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	
EN 1.4125 Equiv.	50~55HRC	EN 1.4305 Equiv.	Cable 2m, 2-Conductors Ø3, Oil Resistant 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 N min.	Contact Force N max.	Contact Logic	L	d	B	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
MSPB N-MSPB-D	6	0.8	6	13	NO (Normally Open)	32	3	5		

Possible to contact objects in all directions.

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

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

Ordering Example
MSPSS6
MSPB6
N-MSPB-D6F