


Heat Resistant Positioning Switches

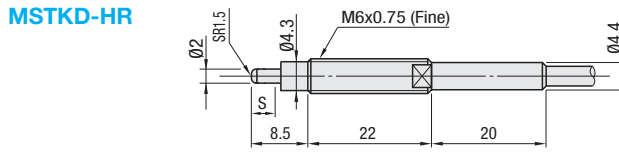
Bolt Type/Ball Plunger/With Stopper

■ Bolt (IP65)



RoHS 10

MSTKD-HR



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

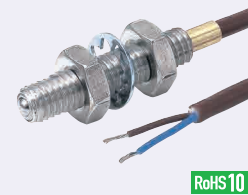
Contact Part	Main Body	Cable	Accessory
M Material	H Hardness	M Material	A
SUS420	45~50HRC	SUS303	Cable 2m, 2-Conductors Ø3, Heat Resistant Min. Bending Radius R7 Hex Nut 2 pcs. (Thickness 3.2, Hex Socket 8)

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 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)		

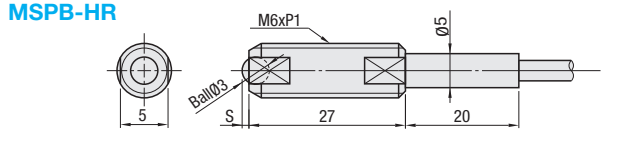
For orders larger than indicated quantity, please check with WOS.

■ Ball Plunger (IP40)



RoHS 10

MSPB-HR



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

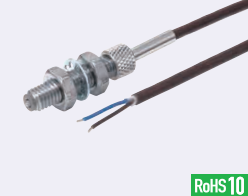
Contact Part	Main Body	Cable	Accessory
M Material	H Hardness	M Material	A
SUS440C	50~55HRC	SUS303	Cable 2m, 2-Conductors Ø3, Oil Resistant Min. Bending Radius R7 Hex Nut 2 pcs. (Coarse Thread JIS Class 3) Toothed Washer 1 pc.

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)		

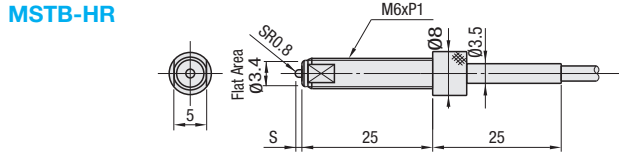
For orders larger than indicated quantity, please check with WOS.

■ 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	H Hardness	M Material	A
SUS420	45~50HRC	SUS420	50HRC	SUS416F	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)		

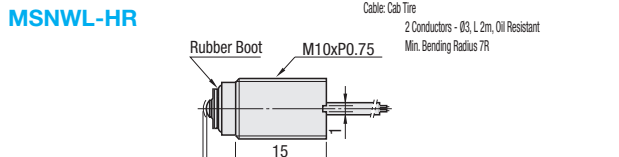
For orders larger than indicated quantity, please check with WOS.

■ 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.

Material
Main Body: SUS416F (45HRC)
Contact Part: SUS420(50HRC)

Accessory
Hex Nut 2 pcs. (Thickness 3 Hex Socket 13)
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.

Ordering Example

Part Number

MSTKD-HR
MSPB-HR
MSTB-HR
MSNWL-HR

Contact Method of Detected Subject

Except Ball Plunger Switch (Declination within ±3°)


Ball Plunger Switch (All Directions)

Relief

Positioning Switches

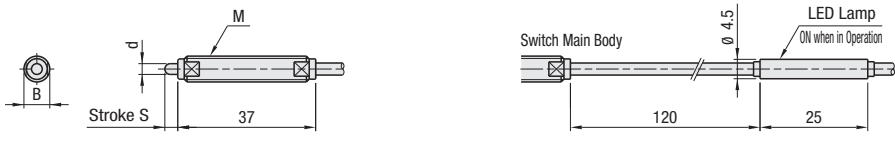
Spring Plunger/Ball Plunger

■ Spring Plunger (IP40)



RoHS 10

MSPSS N-MSPSS-D (With LED)



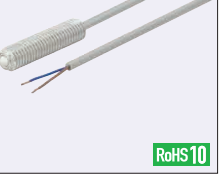
Force must be applied normal to the switch. (Declination within ±3°)

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
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.

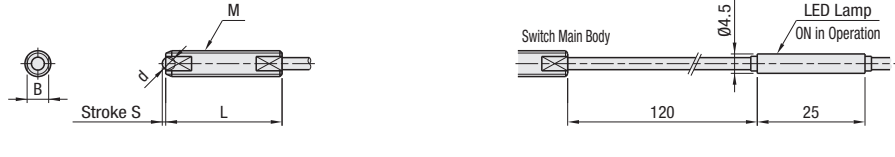
Part Number	Type	No.	M (Coarse)	d	Stroke S	Operating Point	Contact Force N min.	Contact Force N max.	Contact Logic	B	MSPSS Unit Price 1 ~ 9 pc(s).	MSPSS Volume Discount Rate 10~20	N-MSPSS-D Unit Price 1 ~ 9 pc(s).	N-MSPSS-D Volume Discount Rate 10~20
MSPSS N-MSPSS-D		6	6	2.5	3	0.8 from Body End (Repeatability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

■ Ball Plunger (IP40)



RoHS 10

MSPB N-MSPB-D (With LED)



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

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
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	Type	No.	M (Coarse)	Stroke S	Operating Point	Repeatability	Contact Force N min.	Contact Force N max.	Contact Logic	L	d	B	MSPB Unit Price 1 ~ 9 pc(s).	MSPB Volume Discount Rate 10~20	N-MSPB-D Unit Price 1 ~ 9 pc(s).	N-MSPB-D Volume Discount Rate 10~20
MSPB N-MSPB-D		6	6	0.8	0.3	0.01	6	13	NO (Normally Open)	32	3	5				
		6F					1									

Ordering Example

Part Number

MSPSS6
MSPB6
N-MSPB-D6F