

HY-700 series

Micro switch

- Certain operation and long life expectancy due to the snap action tool and strong chemical resistance case (phenolic resin)
- Excellent repetitive accuracy and 10A opening / closing capacity
- Standard type, hole gap of installation cutout dimension : 25.4mm, fix with M4 bolt
- 9 types of actuators provide wide usages
- Terminal protective cover (optional)


Control switch
Combination display light

Power switch
Main switch
Cam switch

Limit switch
Micro switch

Hoist switch
Foot switch
Mono lever switch

Sign tower
Signal light

Buzzer
Terminal block
Fuse holder

Control box
Cable connector

Discontinued Products

Specification

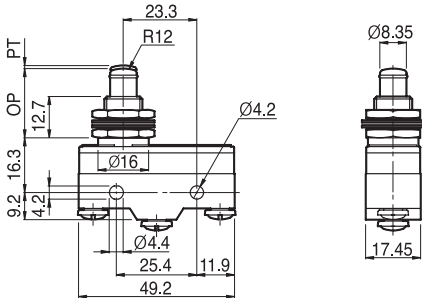
Contact structure	M4-5.5 screw tightening, 1c contact	
Contact material	AgCdO	
Protective structure	Standard type	
Rated current(Ie)	10 A 250 V a.c	
Dielectric strength	2,000 V a.c 50/60 Hz for 1min (between the terminal and non-recharging metal part)	
Insulation resistance	Min 100 M Ω (500 V d.c insulated ohmmeter)	
Contact resistance	Max 50 M Ω (default value)	
Rated voltage(Ue)	250 V a.c	
Vibration	Double amplitude 1.5mm, frequency 10 ~ 55 Hz, continuously 2 hour	
Shock	100 % (durability), 50 % (malfunction)	
Allowable operation speed	0.1 % ~ 1 %	
Life expectancy	Mechanical	Min 1 million times (less than open/close frequency 120 times/min)
	Electrical	Min 300 thousand times (less than open/close frequency 20 times/min)
Ambient temperature	-10 ~ 80 °C	
Ambient humidity	25 ~ 95 % R.H.	
Weight	Approx 800g (10 HY-R704B 1 box)	

Terminal arrangement

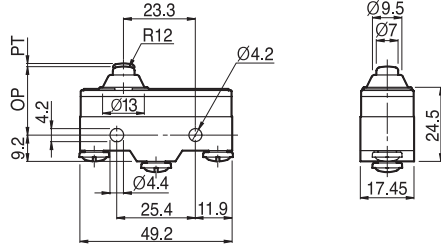
Appearance	Connection diagram
↓ Actuator	

● Dimension (unit : mm)

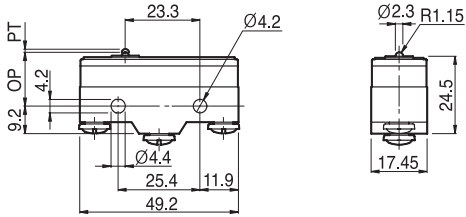
■ Panel mounting type

Appearance	Dimension	Operation characteristic
 HY-P701A (Z4G1P05B)		O.F max : 3.73 N (380 gf) R.F min : 1.12 N (114 gf) P.T max : 1.0 mm O.T min : 5.2 mm M.D max : 0.13 mm O.P : 21.8 ±0.8 mm

■ Spring single push button type

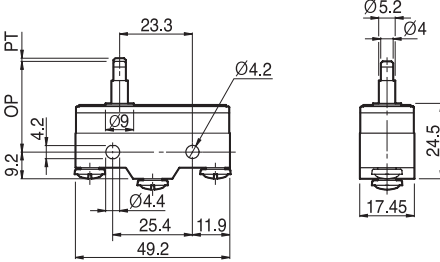
Appearance	Dimension	Operation characteristic
 HY-P701B (Z4G1P09B)		O.F max : 3.73 N (380 gf) R.F min : 1.12 N (114 gf) P.T max : 1.0 mm O.T min : 1.3 mm M.D max : 0.13 mm O.P : 21.8 ±0.8 mm

■ Pin push button type

Appearance	Dimension	Operation characteristic
 HY-P701C (Z4G1P01B)		O.F max : 3.73 N (380 gf) R.F min : 1.12 N (114 gf) P.T max : 1.0 mm O.T min : 0.13 mm M.D max : 0.13 mm O.P : 16.0 ±0.5 mm

HY-700 series

■ Spring stander push button type

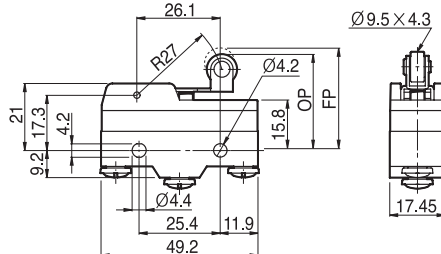
Appearance	Dimension	Operation characteristic
 HY-P701D (Z4G1P03B)		O.F max : 3.73 N (380 gf) R.F min : 1.12 N (114 gf) P.T max : 1.0 mm O.T min : 1.3 mm M.D max : 0.13 mm O.P : 28.2 ±0.6 mm

Control switch
Combination display light

Power switch
Main switch
Cam switch

Limit switch
Micro switch

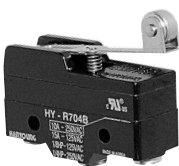
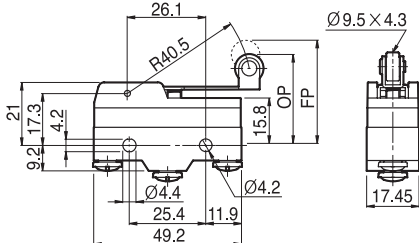
■ Hinge roller single lever type

Appearance	Dimension	Operation characteristic
 HY-R704A (Z4G1L07B)		O.F max : 1.57 N (160 gf) R.F min : 0.27 N (28 gf) P.T max : 5.0 mm O.T min : 2.0 mm M.D max : 1.2 mm O.P : 30.2 ±1.0 mm

Hoist switch
Foot switch
Mono lever switch

Sign tower
Signal light

■ Hinge roller middle lever type

Appearance	Dimension	Operation characteristic
 HY-R704B		O.F max : 1.18 N (120 gf) R.F min : 0.2 N (28 gf) P.T max : 5.0 mm O.T min : 2.0 mm M.D max : 1.2 mm O.P : 30.2 ±1.0 mm

Buzzer
Terminal block
Fuse holder

Control box
Cable connector

Discontinued
Products

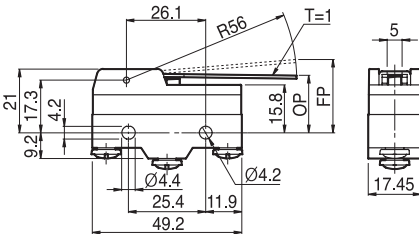
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Appearance	Dimension	Operation characteristic
HY-R704-2W	Technical drawing showing dimensions (mm): - Overall width: 49.2 - Overall height: 45 - Base width: 25.4 - Base height: 11.9 - Mounting hole diameter: Ø4.4 - Terminal hole diameter: Ø4.2 - Terminal pitch: 17.3 - Terminal width: 9.2 - Terminal thickness: 4.2 - Mounting hole offset: 26.1 - Mounting hole radius: R27 - Terminal thread: Ø9.5 × 4.3 - Base width (excluding mounting hole): 15.8 - Base height (excluding mounting hole): 17.45	O,F max : 0.98 N (100 gf) R,F min : 0.14 N (14 gf) P.T max : 8.0 mm O.T min : 3.6 mm M.D max : 0.5 mm O,P : 43,2 ±1,4 mm

Appearance	Dimension	Operation characteristic
HY-L707A	Technical drawing showing dimensions (mm): - Overall length: 49.2 - Overall width: 21 - Top surface width: 26.1 - Top surface thickness: T=1 - Top surface radius: R47 - Bottom surface width: 17.3 - Bottom surface thickness: 4.2 - Bottom surface radius: R4.4 - Bottom surface width: 25.4 - Bottom surface thickness: 11.9 - Bottom surface radius: R4.2 - Bottom surface width: 17.45 - Bottom surface thickness: 5 - Bottom surface radius: R4.4 - Bottom surface width: 25.4 - Bottom surface thickness: 11.9 - Bottom surface radius: R4.2 - Bottom surface width: 17.45 - Bottom surface thickness: 5 - Bottom surface radius: R4.4	O.F max : 1.57 N (160 gf) R.F min : 0.27 N (28 gf) P.T max : 5.0 mm O.T min : 2.0 mm M.D max : 1.2 mm O.P : 19.1 ±1.0 mm

HY-700 series

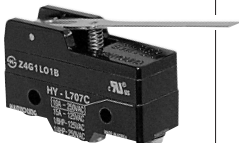
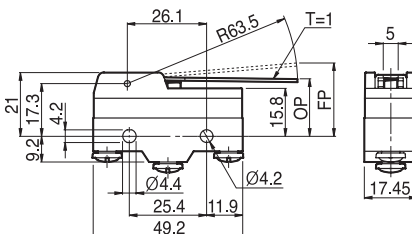
■ Middle lever type

Appearance	Dimension	Operation characteristic
 HY-L707B		O.F max : 1.18 N (120 gf) R.F min : 0.20 N (20 gf) P.T max : 6.5 mm O.T min : 2.8 mm M.D max : 1.8 mm O.P : 19.1 ±1.0 mm

Control switch
Combination display light

Power switch
Main switch
Cam switch

■ Hinge lever type

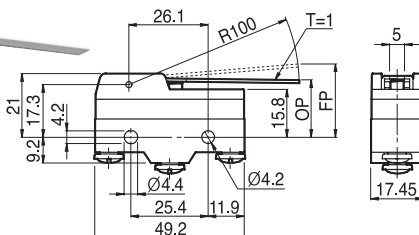
Appearance	Dimension	Operation characteristic
 HY-L707C (Z4G1L01B)		O.F max : 0.98 N (100 gf) R.F min : 0.14 N (14 gf) P.T max : 1.0 mm O.T min : 4.0 mm M.D max : 2.4 mm O.P : 19.1 ±1.0 mm

Limit switch
Micro switch

Hoist switch
Foot switch
Mono lever switch

Sign tower
Signal light

■ Special lever type

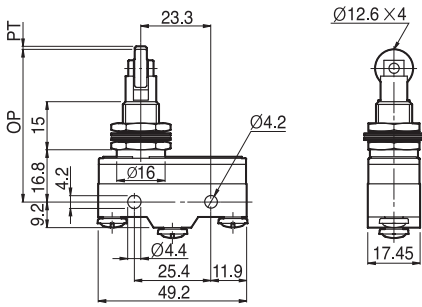
Appearance	Dimension	Operation characteristic
 HY-L707D		O.F max : 0.78 N (80 gf) R.F min : 0.1 N (10 gf) P.T max : 1.4 mm O.T min : 5.6 mm M.D max : 3.5 mm O.P : 19.1 ±1.0 mm

Buzzer
Terminal block
Fuse holder

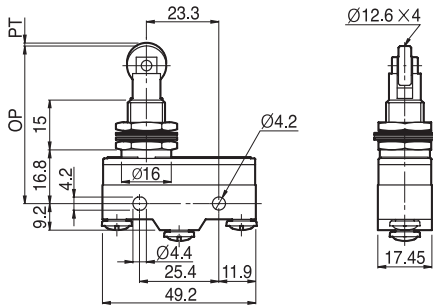
Control box
Cable connector

Discontinued Products

■ Roller panel mounting type (Vertical)

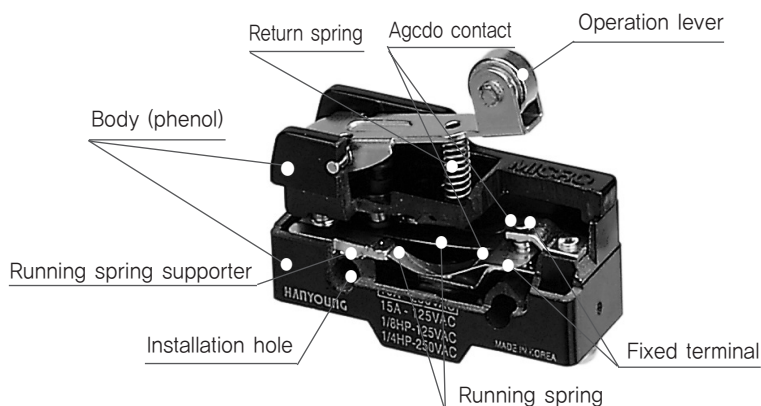
Appearance	Dimension	Operation characteristic
 HY-PR708A	 Technical drawing showing dimensions for the HY-PR708A roller panel mounting type limit switch. Key dimensions include: PT (Total Height), OP (Operating Position), 23.3 (Roller Diameter), 15 (Roller Thickness), 16.8 (Mounting Hole Spacing), 4.2 (Mounting Hole Diameter), Ø16 (Base Diameter), Ø4.2 (Base Hole Diameter), Ø4.4 (Base Hole Diameter), 25.4 (Base Width), 11.9 (Base Width), 49.2 (Base Width), and 17.45 (Base Height).	O.F max : 3.73 N (380 gf) R.F min : 1.12 N (114 gf) P.T max : 1.0 mm O.T min : 3.2 mm M.D max : 0.13 mm O.P : 33.3 ±1.4 mm

■ Roller panel mounting type

Appearance	Dimension	Operation characteristic
 HY-PR708B (Z4G1P07B)	 Technical drawing showing dimensions for the HY-PR708B (Z4G1P07B) roller panel mounting type limit switch. Key dimensions include: PT (Total Height), OP (Operating Position), 23.3 (Roller Diameter), 15 (Roller Thickness), 16.8 (Mounting Hole Spacing), 4.2 (Mounting Hole Diameter), Ø16 (Base Diameter), Ø4.2 (Base Hole Diameter), Ø4.4 (Base Hole Diameter), 25.4 (Base Width), 11.9 (Base Width), 49.2 (Base Width), and 17.45 (Base Height).	O.F max : 3.73 N (380 gf) R.F min : 1.12 N (114 gf) P.T max : 1.0 mm O.T min : 3.2 mm M.D max : 0.13 mm O.P : 33.3 ±1.4 mm

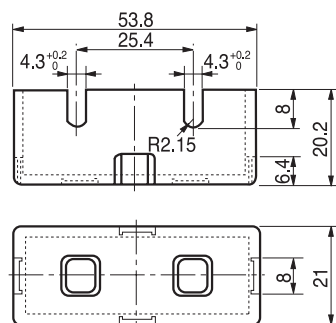
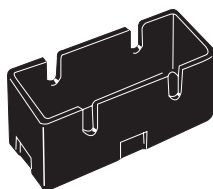
Structure

Internal structure

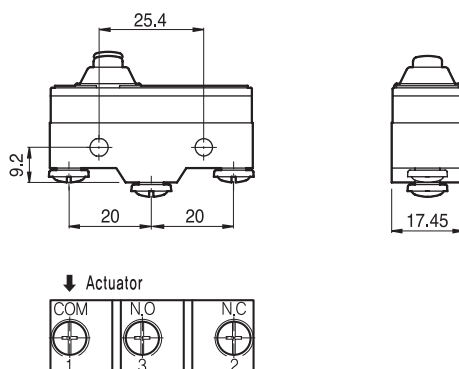


Terminal protective cover

MS-10



Dimension and terminal arrangement


Control switch
Combination
display light

Power switch
Main switch
Cam switch

Limit switch
Micro switch

Hoist switch
Foot switch
Mono lever switch

Sign tower
Signal light

Buzzer
Terminal block
Fuse holder

Control box
Cable connector

Discontinued
Products