

High sensitivity, high precision micro switches

HY-700 Excellent repeatability and 10 A switching capacity

- Standard type installation hole spacing: 25.4 mm, fixed with M4 bolts
- Terminal protective cover (optional)
- Snap action mechanism for high-speed switching, arc resistance, operating part switching at a fixed position
- Wider tolerance band compared with other switches
- Excellent insulating properties with the structure made of heat resistant, internal combustion and arc resistant materials
- Several types of actuators available, such as push button type, lever type and roller lever type
- Certified highly reliable micro switches (KSC 4508, E158885)



● Model configuration

Model	Code	Description
HY-70	□	Micro limit switch (HY-700 series)
Actuators (operating part)	1A	Panel Mounting type
	1B	Spring Single Push Button type
	1C	Pin Push Button type
	1D	Spring Standard Push Button type
	4A	Hinge Roller Single Lever type
	4B	Hinge Roller Middle Lever type
	4C	Hinge Roller Lever type
	4-2W	Two-position Roller Lever type
	7A	Single Position Lever type
	7B	Middle Lever type
	7C	Hinge Lever type
	7D	Special Lever type
	7S	Hinge Special Lever type
	8A	Roller Panel Mounting type (vertical)
	8B	Roller Panel Mounting type
















Model	Description	Image	Drawing
MS-10	Terminal protective cover		

● Rating

Rated voltage (V)	Non-inductive load(A)				Inductive load(A)			
	Resistive load		Inductive load		Electric motor load			
	NC	NO	NC	NO	NC	NO	NC	NO
AC	125	15	10	10	3	1.5		
	250	10	6	6	2	1		
	600	3	2	2	1.5	0.75		
DC	8	15	10	10	-	-		
	14	15	10	10	-	-		
	30	6	5	5	-	-		
	125	0.4	0.05	0.05	-	-		
	250	0.2	0.03	0.03	0.03	-	-	

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● Specifications

Model	Panel Mounting type	Spring Single Push Button type	Pin Push Button type	Spring Standard Push Button type	Hinge Roller Single Lever type
	HY-P701A (Z4G1P05B)	HY-P701B (Z4G1P09B)	HY-P701C (Z4G1P01B)	HY-P701D (Z4G1P03B)	HY-R704A (Z4G1L07B)
Shape					
Model	Hinge Roller Middle Lever type	Hinge Roller Lever type	Two-position Roller Lever type	Single Position Lever type	Middle Lever type
	HY-R704B	HY-R704C (Z4G1L03B)	HY-R704-2W	HY-L707A	HY-L707B
Shape					
Model	Hinge Lever type	Special Lever type	Hinge Special Lever type	Roller Panel Mounting type (vertical)	Roller Panel Mounting type
	HY-L707C (Z4G1L01B)	HY-L707D	HY-L707S	HY-PR708A	HY-PR708B (Z4G1P07B)
Shape					
Contact structure		M4-5.5 screw tightening, 1c contact			
Contact material		AgCd0			
Body material		PBT (GF 30 %)			
Protective structure		Typical			
Allowable operating speed		0.1 mm - 1 m/s			
Insulation resistance		100 MΩ min (500 V d.c.)			
Contact resistance		50 MΩ min (initial value), 2 Ω min (after test)			
Rated voltage (Ue)		250 V a.c.			
Vibration resistance		10 - 55 Hz double amplitude 0.75 mm			
Dielectric strength		1,000 V a.c. 50/60 Hz for 1 min (among terminals), 1,500 V a.c. 50/60 Hz for 1 min (among unfilled metal parts)			
Rated current (Ie)		10 A 250 V a.c. (Resistive load)			
Frequency	Mechanical	50 ~ 300 times/min			
	Electrical	20 times/min			
Shock resistance	Mechanical	1000 m/s ² min (100G min)			
	Malfunction	300 m/s ² min (30G min)			
Life	Mechanical	1,000,000 times min (open/close frequency: 120 times/min)			
	Electrical	300,000 times min (Open/close frequency in rated load: 20 times/min)			
Weight	Net	31.5 ~ 59.5 g			
	Gross	Approx. 800 g (1 box of 10 HY-R704B)			

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● HY-P701A (Z4G1P05B)

Dimensions	Operating characteristics
	OF max:3.73 N (380 gf) RF min:1.12 N (114 gf) PT max:1.0 mm OT min:5.2 mm MD max:0.13 mm OP:21.8 ±0.8 mm

● HY-P701B (Z4G1P09B)

Dimensions	Operating characteristics
	OF max:3.73 N (380 gf) RF min:1.12 N (114 gf) PT max:1.0 mm OT min:1.3 mm MD max:0.13 mm OP:21.8 ±0.8 mm

● HY-P701C (Z4G1P01B)

Dimensions	Operating characteristics
	OF max:3.73 N (380 gf) RF min:1.12 N (114 gf) PT max:1.0 mm OT min:0.13 mm MD max:0.13 mm OP:16.0 ±0.5 mm

● HY-P701D (Z4G1P03B)

Dimensions	Operating characteristics
	OF max:3.73 N (380 gf) RF min:1.12 N (114 gf) PT max:1.0 mm OT min:1.3 mm MD max:0.13 mm OP:28.2 ±0.6 mm

● HY-R704A (Z4G1L07B)

Dimensions	Operating characteristics
	OF max:1.57 N (160 gf) RF min:0.27 N (28 gf) PT max:5.0 mm OT min:2.0 mm MD max:1.2 mm OP:30.2 ±1.0 mm

● HY-R704B

Dimensions	Operating characteristics
	OF max:1.18 N (120 gf) RF min:0.2 N (28 gf) PT max:5.0 mm OT min:2.0 mm MD max:1.2 mm OP:30.2 ±1.0 mm

● HY-R704C (Z4G1L03B)

Dimensions	Operating characteristics
	OF max:0.98 N (100 gf) RF min:0.14 N (14 gf) PT max:8.0 mm OT min:3.6 mm MD max:2.4 mm OP:30.2 ±1.0 mm

● HY-R704-2W

Dimensions	Operating characteristics
	OF max:0.98 N (100 gf) RF min:0.14 N (14 gf) PT max:8.0 mm OT min:3.6 mm MD max:0.5 mm OP:43.2 ±1.4 mm

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● HY-L707A

Dimensions	Operating characteristics
	OF max:1.57 N (160 gf) RF min:0.27 N (28 gf) PT max:5.0 mm OT min:2.0 mm MD max:1.2 mm OP:19.1 ±1.0 mm

● HY-L707B

Dimensions	Operating characteristics
	OF max:1.18 N (120 gf) RF min:0.20 N (20 gf) PT max:6.5 mm OT min:2.8 mm MD max:1.8 mm OP:19.1 ±1.0 mm

● HY-L707C (Z4G1L01B)

Dimensions	Operating characteristics
	OF max:0.98 N (100 gf) RF min:0.14 N (14 gf) PT max:16 mm OT min:4.0 mm MD max:2.4 mm OP:19.1 ±1.0 mm

● HY-L707D

Dimensions	Operating characteristics
	OF max:0.78 N (80 gf) RF min:0.1 N (10 gf) PT max:23 mm OT min:5.6 mm MD max:3.5 mm OP:19.1 ±1.0 mm

● HY-L707S

Dimensions	Operating characteristics
	OF max:1.37 N (140 gf) RF min:0.27 N (28 gf) PT max:5.0 mm OT min:4.5 mm MD max:1.2 mm OP:33.0 ±1 mm

● HY-PR708A

Dimensions	Operating characteristics
	OF max:3.73 N (380 gf) RF min:1.12 N (114 gf) PT max:1.0 mm OT min:3.2 mm MD max:0.13 mm OP:33.3 ±1.4 mm

● HY-PR708B (Z4G1P07B)

Dimensions	Operating characteristics
	OF max:3.73 N (380 gf) RF min:1.12 N (114 gf) PT max:1.0 mm OT min:3.2 mm MD max:0.13 mm OP:33.3 ±1.4 mm