

HY-LS800 series

Limit switch

- Compact size and light weight
by applying the plastic case
- Plastic case which provides safety regarding
the electric leakage
- Various actuators (6 types) provide wide
application
- IP54 protective structure
(Applied only when using our company
connector model HYC-M1 in the wire opening)
- Connector rating of wire opening : 1/2 PF


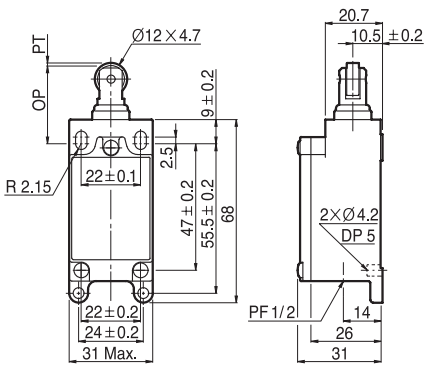


●● Specification


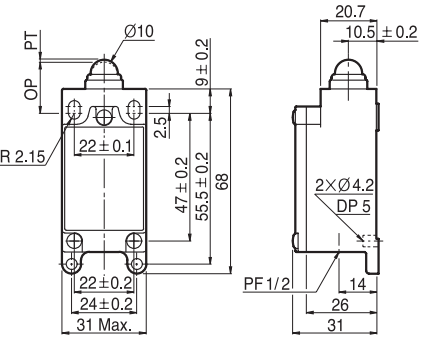
Contact structure		M3 screw tightening terminal, 2 circuits double type (1a1b)
Contact material		AgNi
Protective structure		IP54 (Only when using our company product HYC-M1, M2 in the wire opening)
Rated current(Ie)		6 A 250 V a.c, 4 A 30 V d.c (AC-12, AC-13, AC-15, DC-13)
Dielectric strength		2,000 V a.c 50/60 Hz for 1 min (between the terminal and non-recharging metal part)
Insulation resistance		Min 100 M Ω (500 V d.c insulated ohmmeter)
Contact resistance		Max 25 M Ω (default value)
Rated voltage(Ue)		250 V a.c, 30 V d.c
Actuator intensity		5 times larger than O.F (required force for the operation), operating direction 1 min
Vibration		Double amplitude 1.5mm, frequency 10 ~ 55 Hz, continuously 2 hour
Shock		100 % (durability), 50 % (malfunction)
Allowable operation speed		0.1 ~ 0.5 % (without damaging the actuator)
Life expectancy	Mechanical	Min 1 million times (less than open/close frequency 120 times/min)
	Electrical	Min 100 thousand times (less than open/close frequency 30 times/min)
Ambient temperature		-10 ~ 70 °C
Ambient humidity		45 ~ 95 % R.H.
Weight		Approx 60g (HY-LS803N)

Dimension (unit : mm)


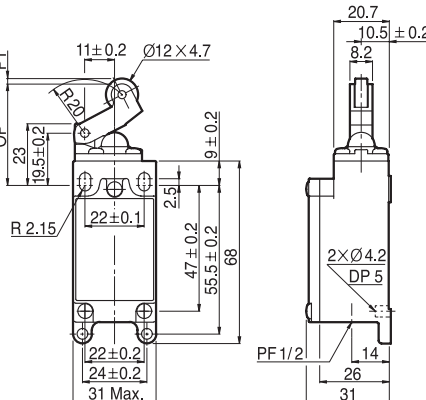
■ Roller Plunger

Appearance	Dimension	Operation characteristic
 <p>HY-LS802N</p>		<p>O.F max : 6.37 N (650 gf) R.F min : 1.47 N (150 gf) P.T max : 2.0 mm O.T min : 4.0 mm M.D max : 0.8 mm O.P : 28.2 ±0.8</p>

■ Push Plunger

Appearance	Dimension	Operation characteristic
 <p>HY-LS803N</p>		<p>O.F max : 6.37 N (650 gf) R.F min : 1.47 N (150 gf) P.T max : 2.0 mm O.T min : 4.0 mm M.D max : 0.8 mm O.P : 18.0 ±0.5</p>

■ Roller Arm


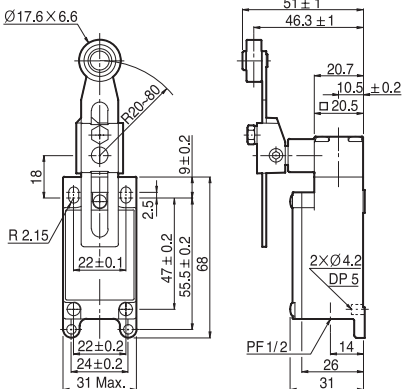
Appearance	Dimension	Operation characteristic
 <p>HY-LS803RN</p>		<p>O.F max : 3.92 N (400 gf) R.F min : 0.78 N (80 gf) P.T max : 4.0 mm O.T min : 5.0 mm M.D max : 1.5 mm O.P : 37.0 ±0.8</p>

- Control switch
- Combination display light
- Power switch
- Main switch
- Cam switch
- Limit switch
- Micro switch


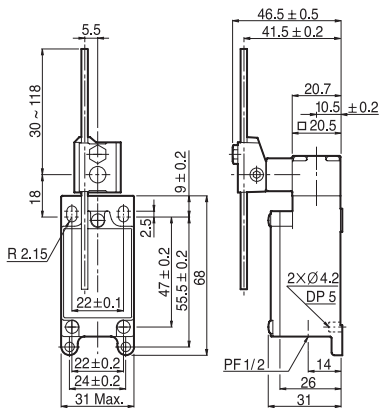
- Hoist switch
- Foot switch
- Mono lever switch
- Sign tower
- Signal light
- Buzzer
- Terminal block
- Fuse holder

- Control box
- Cable connector
- Discontinued Products


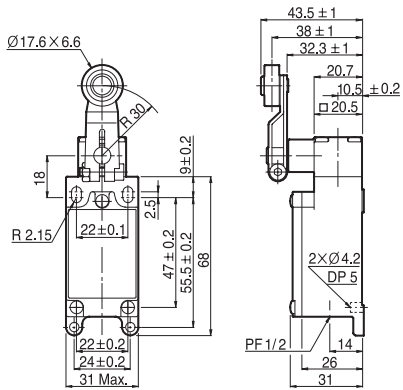
■ Roller Adjustable Lever

Appearance	Dimension	Operation characteristic
 <p data-bbox="244 697 362 726">HY-LS804N</p>	 <p>Technical drawing showing dimensions for the roller adjustable lever. Key dimensions include: roller diameter $\varnothing 17.6 \times 6.6$, roller radius $R20 \sim 30$, mounting hole radius $R2.15$, and various body dimensions such as 18, 22±0.1, 24±0.2, 31 Max., 47±0.2, 55.5±0.2, 68, 9±0.2, 51±1, 46.3±1, 20.7, 10.5±0.2, 20.5, 2×$\varnothing 4.2$, DP 5, PF 1/2, 14, 26, and 31.</p>	<p>O.F max : 4.21 N (430 gf) R.F min : 0.42 N (43 gf) P.T max : 18° ~ 27° O.T min : 30° M.D max : 14°</p>

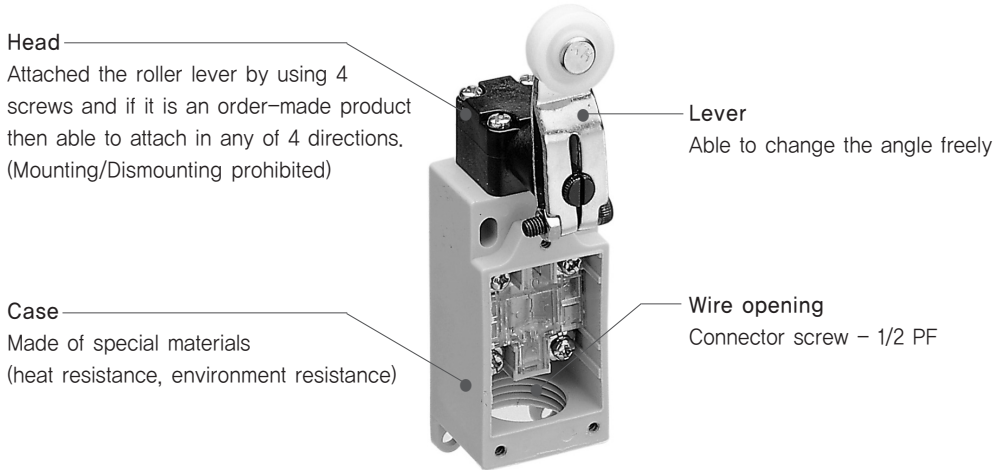
■ Adjustable Rod Lever

Appearance	Dimension	Operation characteristic
 <p data-bbox="244 1232 362 1261">HY-LS807N</p>	 <p>Technical drawing showing dimensions for the adjustable rod lever. Key dimensions include: rod diameter 5.5, rod length 30 ~ 118, mounting hole radius $R2.15$, and various body dimensions such as 18, 22±0.1, 24±0.2, 31 Max., 47±0.2, 55.5±0.2, 68, 9±0.2, 46.5±0.5, 41.5±0.2, 20.7, 10.5±0.2, 20.5, 2×$\varnothing 4.2$, DP 5, PF 1/2, 14, 26, and 31.</p>	<p>O.F max : 4.21 N (430 gf) R.F min : 0.42 N (43 gf) P.T max : 18° ~ 27° O.T min : 30° M.D max : 14°</p>

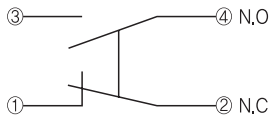
■ Roller Lever

Appearance	Dimension	Operation characteristic
 <p data-bbox="244 1748 362 1777">HY-LS808N</p>	 <p>Technical drawing showing dimensions for the roller lever. Key dimensions include: roller diameter $\varnothing 17.6 \times 6.6$, roller radius $R30$, mounting hole radius $R2.15$, and various body dimensions such as 18, 22±0.1, 24±0.2, 31 Max., 47±0.2, 55.5±0.2, 68, 9±0.2, 43.5±1, 38±1, 32.3±1, 20.7, 10.5±0.2, 20.5, 2×$\varnothing 4.2$, DP 5, PF 1/2, 14, 26, and 31.</p>	<p>O.F max : 4.9 N (500 gf) R.F min : 0.49 N (50 gf) P.T max : 18° ~ 27° O.T min : 30° M.D max : 14°</p>

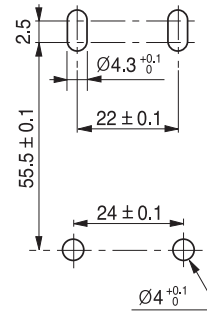
●● Structure



●● Switch connection diagram (external case one body type)

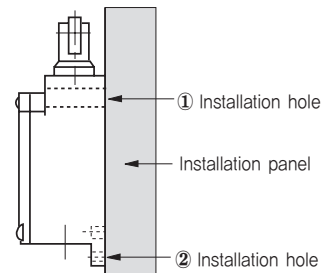


●● Panel cutout (unit : mm)



●● Proper using instruction

- In order to prevent the looseness when it is mounted, it is ok to use washer and mount it with 5 ~ 7 N · m torque.
- There are 2 installing holes (Ø4 ~ 4.8) in order to mount the switch solidly and when mounting it, please fix it with the installing holes ① and ②.
- Please connect the lead wire to the terminal directly or connect the pressing terminal with the 5~6 N · m torque.
- Avoid the places where temperature is high, various kinds of dust exist and possible leakage of organic gas.
- Please ask us if you are going to use it in the place where it needs the corrosiveness cold/hot cycle and long period hot resistance.
- Please ask us if you are going to change the direction of head (LS803RN, LS804N, LS807N, LS808N)



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