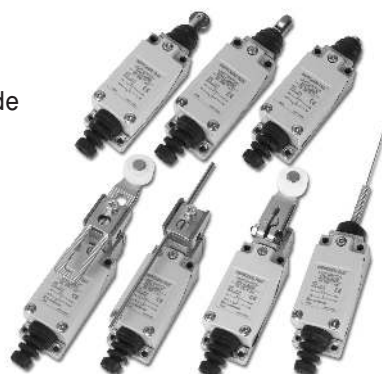


# HY-L800 series

## Mini limit switch

- Less installation space due to the compact size
- Zinc die-casting body and plastic cover structure provide electrical safeties
- 4 types of actuators provide wide usages
- Able to install at the front side and back side
- Simple connecting because when open the cover, the terminal part is exposed to the front side.
- Applied to the machine tools, transportation machine, assembling line and various industrial machines



### ●● Suffix code

| Model                           | Code                     | Description                           |
|---------------------------------|--------------------------|---------------------------------------|
| HY-L80                          | <input type="checkbox"/> | Compact limit switch (HY-L800 series) |
| Actuator<br>(operation<br>part) | 2                        | Roller Plunger type                   |
|                                 | 2C                       | Cross Roller Plunger type             |
|                                 | 3                        | Top Plunger type                      |
|                                 | 4                        | Roller Adjustable Lever type          |
|                                 | 7                        | Adjustable Rod Lever type             |
|                                 | 8                        | Roller Lever type                     |
|                                 | 9                        | Coil Spring type                      |

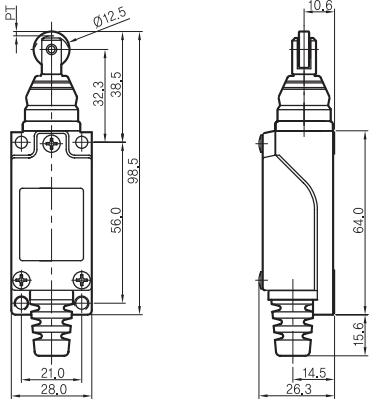
### ●● Specification

|                               |            |                                                                                     |
|-------------------------------|------------|-------------------------------------------------------------------------------------|
| Contact structure             |            | M3 screw tightening terminal, 2 circuits double type (1a1b)                         |
| Contact material              |            | AgNi                                                                                |
| Protective structure          |            | IP 54                                                                               |
| Rated current(Ie)             |            | 6 A 250 V a.c (AC-12, AC-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 $\Omega$ (500 V d.c insulated ohmmeter)                                   |
| Contact resistance            |            | Max 20 M $\Omega$ (default value)                                                   |
| Rated voltage(Ue)             |            | 250 V a.c                                                                           |
| Case material                 |            | Zinc die-casting and plastic body and plastic cover                                 |
| Vibration                     |            | Double amplitude 1.5 mm, frequency 10 ~ 55 Hz, continuously 2 hour                  |
| Shock                         |            | 300 % $\text{g}$ (durability), 100 % $\text{g}$ (malfunction)                       |
| Max opening/closing frequency |            | Max 120 times / min                                                                 |
| 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 $^{\circ}\text{C}$                                                         |
| Ambient humidity              |            | 45 ~ 95 % R.H.                                                                      |
| Weight                        |            | Approx 157g (HY-LS804 standard)                                                     |

## HY-L800 series

## ●● Dimension (unit : mm)

## ■ Roller Plunger type

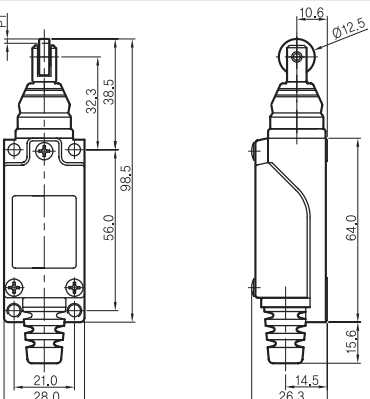
| Appearance                                                                                       | Dimension                                                                         | Operation characteristic                                                                                                                            |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>HY-L802</p> |  | <p>O.F max : 8.83 N (900 gf)<br/> R.F min : 1.47 N (150 gf)<br/> P.T max : 1.5 mm<br/> O.T min : 2.5 mm<br/> M.D max : 0.8 mm<br/> TTP : 3.5 mm</p> |

Control switch  
Combination display light

Power switch  
Main switch  
Cam switch

Limit switch  
Micro switch

## ■ Cross Roller Plunger type

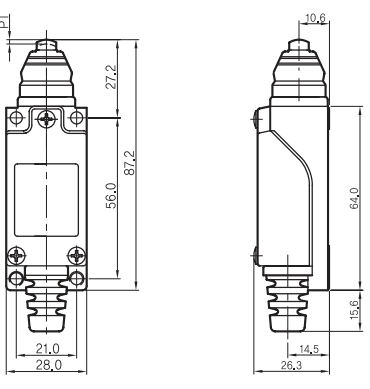
| Appearance                                                                                         | Dimension                                                                          | Operation characteristic                                                                                                                            |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>HY-L802C</p> |  | <p>O.F max : 8.83 N (900 gf)<br/> R.F min : 1.47 N (150 gf)<br/> P.T max : 1.5 mm<br/> O.T min : 2.5 mm<br/> M.D max : 0.8 mm<br/> TTP : 3.5 mm</p> |

Hoist switch  
Foot switch  
Mono lever switch

Sign tower  
Signal light

Buzzer  
Terminal block  
Fuse holder

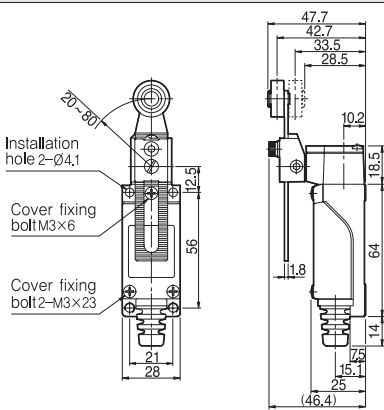
## ■ Top Plunger type

| Appearance                                                                                         | Dimension                                                                           | Operation characteristic                                                                                                                            |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>HY-L803</p> |  | <p>O.F max : 8.83 N (900 gf)<br/> R.F min : 1.47 N (150 gf)<br/> P.T max : 1.5 mm<br/> O.T min : 2.1 mm<br/> M.D max : 0.8 mm<br/> TTP : 3.0 mm</p> |

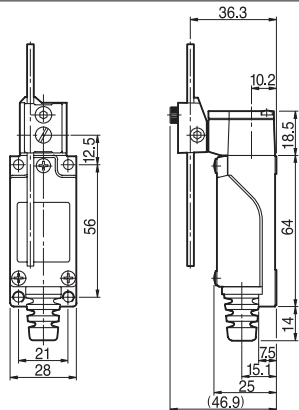
Control box  
Cable connector

Discontinued Products

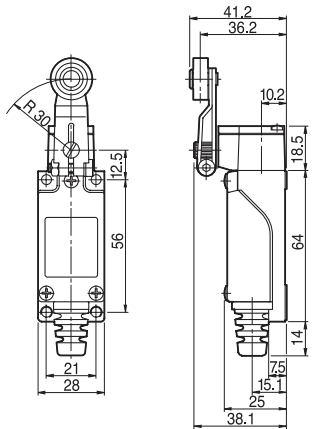
### ■ Roller Adjustable Lever

| Appearance                                                                                       | Dimension                                                                         | Operation characteristic                                                                                                   |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|  <p>HY-L804</p> |  | <p>O.F max : 7.84 N (800 gf)<br/> R.F min : 0.2 N (21 gf)<br/> P.T max : 20 mm<br/> O.T min : 70°<br/> M.D max : 10 mm</p> |

### ■ Adjustable Rod Lever

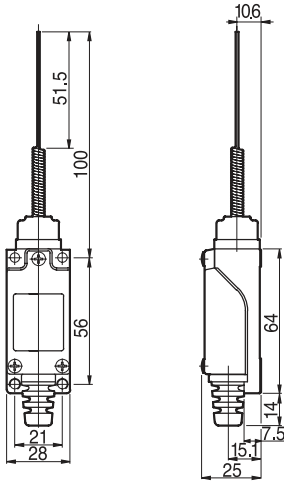
| Appearance                                                                                        | Dimension                                                                          | Operation characteristic                                                                                                   |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|  <p>HY-L807</p> |  | <p>O.F max : 7.84 N (800 gf)<br/> R.F min : 0.1 N (21 gf)<br/> P.T max : 20 mm<br/> O.T min : 70°<br/> M.D max : 10 mm</p> |

### ■ Roller Lever

| Appearance                                                                                         | Dimension                                                                           | Operation characteristic                                                                                                                  |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>HY-L808</p> |  | <p>O.F max : 5.88 N (400 gf)<br/> R.F min : 0.5 N (50 gf)<br/> P.T max : 20°<br/> O.T min : 70°<br/> M.D max : 10°<br/> T.T min : 90°</p> |

## HY-L800 series

### ■ Coil spring type

| Appearance                                                                                       | Dimension                                                                         | Operation characteristic                                                                                                        |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
|  <p>HY-L809</p> |  | <p>O.F max : 0.88 N (90 gf)<br/> R.F min : -<br/> P.T max : 30 mm<br/> O.T min : 20 °<br/> M.D max : -<br/> T.T min : 30 mm</p> |

Control switch  
Combination display light

Power switch  
Main switch  
Cam switch

Limit switch  
Micro switch

Hoist switch  
Foot switch  
Mono lever switch

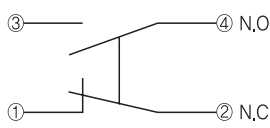
Sign tower  
Signal light

Buzzer  
Terminal block  
Fuse holder

Control box  
Cable connector

Discontinued Products

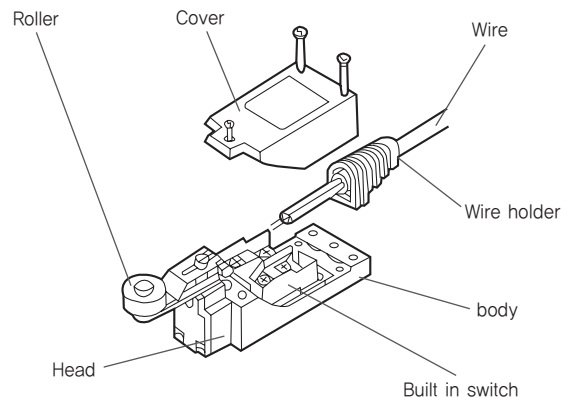
### ●● Built in switch and connection diagram

| Appearance (HY-800)                                                                 | Connection diagram                                                                   |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |

### ●● Structure and name of each part

■ Image (After completed the connection)

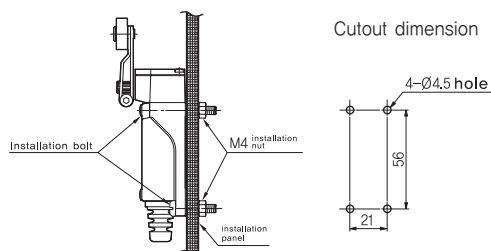
■ Name of each part (structure)



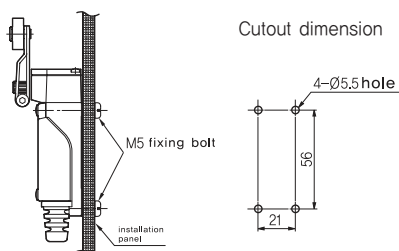
## ●● Installation method

※Front installation : Use M4 bolt, Back installation : Use M5 bolt.

### ■ Front installation

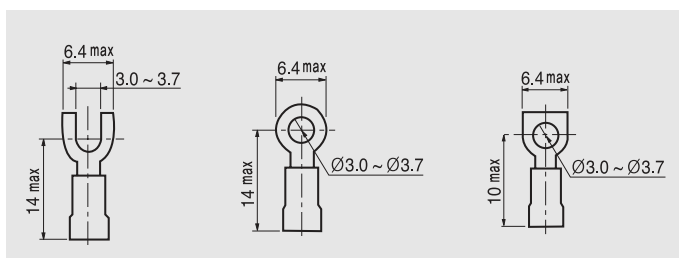


### ■ Back installation

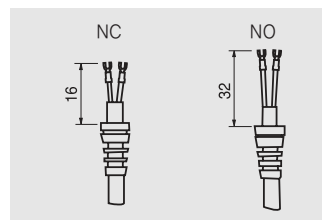


## ●● Applying pressure terminal

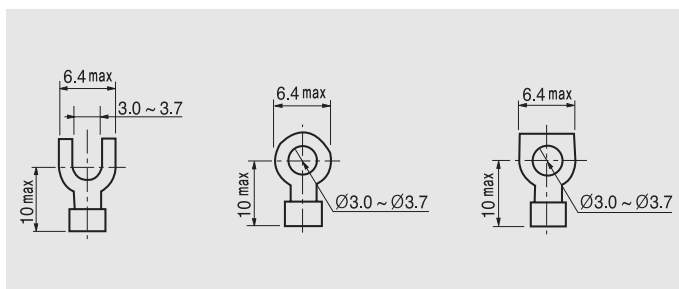
### ■ Insulation terminal



### ■ Wire handling when using the pressure terminal



### ■ Non-insulation terminal



### ■ Wire handling when not using the pressure terminal

