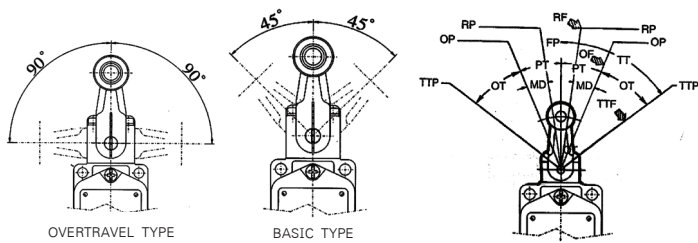


OF : Operating Force TTP : Total Travel Position
 RF : Releasing Force PT : Pretravel
 TF : Total Force OT : Overtravel
 FP : Free Position DT : Travel Differential
 OP : Operating Position TT : Total Travel
 RP : Releasing Position



- Note:**
1. Inductive loads have a power factor of 0.4min.(AC) and a time constant of 7 ms max.(DC).
 2. Lamp load has an inrush current of 10 times the steady-state current.
 3. Motor load has an inrush current of 6 times the steady-state current

MAIN FEATURES :

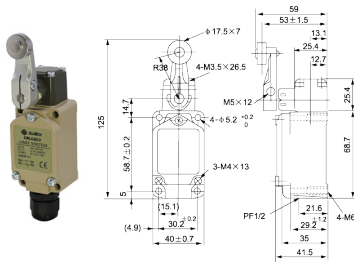
- ✓ Double-circuit type of limit switch, is widely used
- ✓ With strong aluminum cast outer shell
- ✓ High mechanical strength
- ✓ Structure preventing oil, water and pressure
- ✓ Indicating plate with setting position is installed in it, so it is easy to maintain
- ✓ Various actuators is taken convenience for using
- ✓ Built-in contact stand has double-spring, so it has long mechanical life
- ✓ Standard size configuration M20x1.5 for conduit connector

| | |
|-----------------------|--|
| Operating speed | 1mm/sec to 2m/sec (with Type WLCA2) |
| Operating frequency | Mechanical : 120 operations/min. Electrical : 30 operations/min. |
| Contact resistance | 15M Ω max. (initial) |
| Insulation resistance | 100M Ω min. (at 500 VDC) |
| Dielectric strength | 1000 VAC, 50/60 Hz for 1 minute between terminals of the same polarity 1500 VAC, 50/60 Hz for 1 minute between current-carrying and noncurrent-carrying metal parts 1500 VAC, 50/60 Hz for 1 minute between each terminal and ground |
| Vibration | Malfunction durability : 10 to 55Hz; 1.5mm double amplitude |
| Shock | Mechanical durability : Approx. 1,000m/sec ² (approx. 100G's) Malfunction durability : Approx. 300m/sec ² (approx. 30G's) |
| Ambient temperature | Operating:-10°C to +80°C (With no icing) |
| Humidity | 95% RH max. |
| Service life | Mechanical : 15,000,000 operations above (under rated OT) Electrical : 500,000 operations above |
| Degree of protection | IP66 |

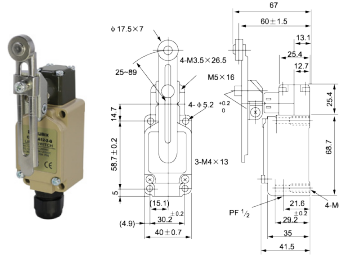
| Rated Voltage | Non-inductive load | | | | Inductive load | | | |
|---------------|--------------------|------|-----------|------|----------------|------|------------|------|
| | Resistive Load | | Lamp Load | | Inductive load | | Motor Load | |
| | N.C. | N.O. | N.C. | N.O. | N.C. | N.O. | N.C. | N.O. |
| 125 VAC | 10 | 10 | 3 | 1.5 | 10 | 10 | 5 | 2.0 |
| 250 VAC | 5 | 5 | 2 | 1 | 5 | 5 | 3 | 1.0 |
| 8 VDC | 10 | 10 | 6 | 3 | 10 | 10 | 6 | 6 |
| 30 VDC | 6 | 6 | 4 | 3 | 6 | 6 | 4 | 4 |
| 125 VDC | 0.8 | 0.8 | 0.2 | 0.2 | 0.8 | 0.8 | 0.2 | 0.2 |

| Types of actuator | Model | OF max (g) | RF min (g) | PT max (mm) | OT min (mm) | MD max (mm) | TF max (g) | TT max | OP (mm) |
|---|-------------|------------|------------|-------------|-------------|-------------|------------|-----------|---------|
| Roller Lever | CWLCA2-2 | 1360 | 227 | 20° | 30° | 12° | 2720 | 50° | - |
| Adjustable Roller Lever | CWLCA12-2-Q | 1360 | 227 | 20° | 30° | 12° | 2720 | 50° | - |
| Adjustable Rod Lever | CWLCL | 142 | 28 | 20° | 30° | 12° | 200 | 50° | - |
| Fork Lever Lock | CWLCA32-41 | 1200 | - | 55° | 35° | - | - | 90 ± 10° | - |
| Fork Lever Lock | CWLCA32-42 | | | | | | | | |
| Top Plunger | CWLD | 2720 | 910 | 1.7 | 6.4 | 1 | - | 34 ± 2.8 | - |
| Cross Roller Plugner | CWLD1 | 2720 | 910 | 1.7 | 5.6 | 1 | 2720 | 6.5 ± 0.8 | - |
| Roller Plunger | CWLD2 | 2720 | 910 | 1.7 | 5.6 | 1 | - | 6.5 ± 0.8 | - |
| Ball Plunger | CWLD3 | 2720 | 910 | 1.7 | 5.6 | 1 | 2720 | 9 ± 0.8 | - |
| Coil Spring (6.5 dia.) | CWLNJ | 150 | - | 28 | - | - | - | - | - |
| Coil Spring With Plastic End (8.0 dia.) | CWLNJ-2 | 120 | - | 28 | - | - | - | - | - |
| Metal Stick (5.0 dia.) | CWLNJ-30 | 80 | - | 28 | - | - | - | - | - |
| Spring Wire (1.0 dia.) | CWLNJ-S2 | 29 | - | 28 | - | - | - | - | - |

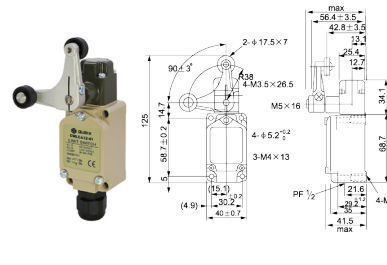




CWLCA2-2



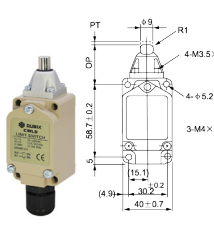
CWLCA12-2-Q



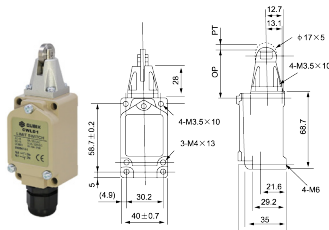
CWLCA32-41



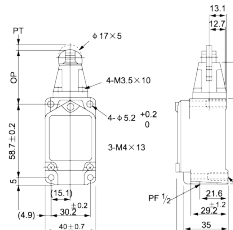
CWLCA32-42



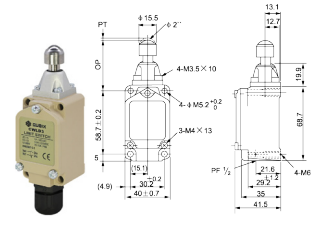
CWLD



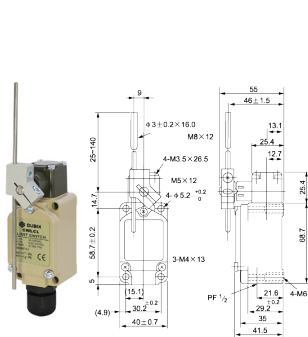
CWLD1



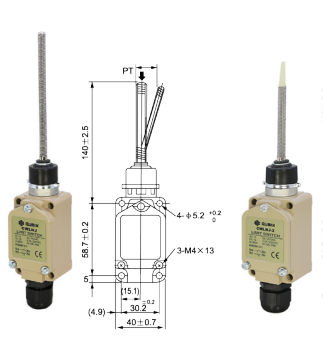
CWLD2



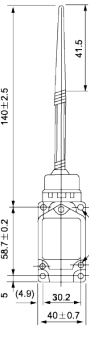
CWLD3



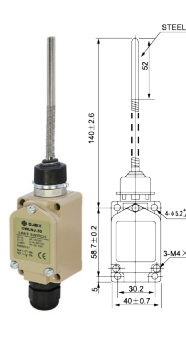
CWLCL



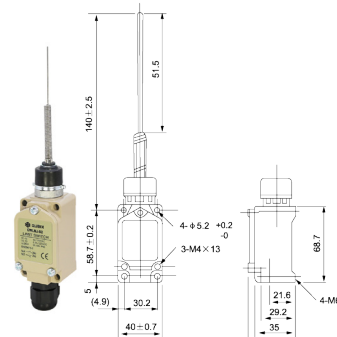
CWLNJ



CWLNJ2



CWLNJ30



CWLNJ-S2

CWL-Series

| รุ่น (Model) | ลักษณะ หน้าสัมผัสทำงาน | Rated Current / Voltage | Contact Type | Terminal Type |
|--------------|---|-------------------------|---------------|---------------|
| CWLCA2-2 | Roller Lever | 10A / 250V | DPDT 1NO, 1NC | SCREW TYPE |
| CWLCA12-2-Q | Adjustable Roller Lever | 10A / 250V | DPDT 1NO, 1NC | |
| CWLCL | Adjustable Rod Lever | 10A / 250V | DPDT 1NO, 1NC | |
| CWLCA32-41 | Fork Lever Lock | 10A / 250V | DPDT 1NO, 1NC | |
| CWLCA32-42 | Fork Lever Lock | 10A / 250V | DPDT 1NO, 1NC | |
| CWLD | Top Plunger | 10A / 250V | DPDT 1NO, 1NC | |
| CWLD1 | Cross Roller Plugner | 10A / 250V | DPDT 1NO, 1NC | |
| CWLD2 | Roller Plunger | 10A / 250V | DPDT 1NO, 1NC | |
| CWLD3 | Ball Plunger | 10A / 250V | DPDT 1NO, 1NC | |
| CWLNJ | Coil Spring (6.5 dia.) | 10A / 250V | DPDT 1NO, 1NC | |
| CWLNJ2 | Coil Spring With Plastic End (8.0 dia.) | 10A / 250V | DPDT 1NO, 1NC | |
| CWLNJ30 | Metal Stick (5.0 dia.) | 10A / 250V | DPDT 1NO, 1NC | |
| CWLNJ-S2 | Spring Wire (1.0 dia.) | 10A / 250V | DPDT 1NO, 1NC | |

