

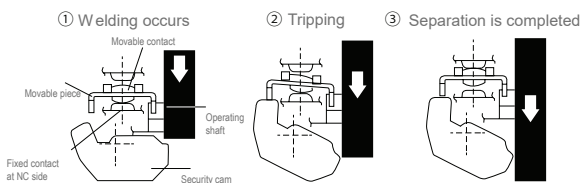


#### MAIN FEATURES :

- ✓ Forced open action device (NC contacts only), it can disconnect the contact when the contact has fusing and other failures.
- ✓ The set safety of lever ensures that gear ratcheting device is used between the action position indicator panel and the lever.
- ✓ Strengthened top seal structure improves the sealing performance.
- ✓ Built-in contact holder has fast-action type: 1NC / 1NO;  
Slow-action: 1NC / 1NO and 2NC.

Forced disconnect line of EN60947-5-1

(Only NC contact side has direct opening action function.)



Security cams are directly pressed to separate the movable piece

| Rated voltage (V) |     | Non-inductive load(A) |    |           |     | Inductive load(A) |    |            |     |
|-------------------|-----|-----------------------|----|-----------|-----|-------------------|----|------------|-----|
|                   |     | Resistive load        |    | lamp load |     | Inductive load    |    | Motor load |     |
|                   |     | NC                    | NO | NC        | NO  | NC                | NO | NC         | NO  |
| AC                | 125 | 10                    |    | 3         | 1.5 | 10                |    | 5          | 2.5 |
|                   | 250 | 10                    |    | 2         | 1   | 10                |    | 3          | 1.5 |
|                   | 400 | 10                    |    | 1.5       | 0.8 | 3                 |    | 1.5        | 0.8 |
| DC                | 8   | 10                    |    | 6         | 3   | 10                |    | 6          |     |
|                   | 14  | 10                    |    | 6         | 3   | 10                |    | 6          |     |
|                   | 30  | 6                     |    | 4         | 3   | 6                 |    | 4          |     |
|                   | 125 | 0.8                   |    | 0.2       | 0.2 | 0.8               |    | 0.2        |     |
|                   | 250 | 0.4                   |    | 0.1       | 0.1 | 0.4               |    | 0.1        |     |

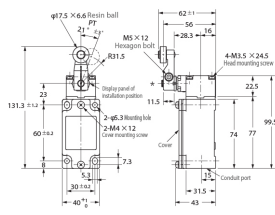
#### Performance

|                                             |                                                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------|
| Protection Level                            | IP66                                                                                                 |
| Mechanical Life                             | More than 10,000,000 times*5                                                                         |
| Electrical Life                             | More than 500,000 times(250Vac 10A, resistive load)                                                  |
| Operation Speed                             | 1mm~0.5m/s                                                                                           |
| Operation Frequency                         | Mechanical: 120 times/min                                                                            |
|                                             | Electrical: 30 times/min                                                                             |
| Rated Frequency                             | 50/60Hz                                                                                              |
| Insulation resistance                       | 100MΩ or more (DC500V Megameter) between homopolars, and between terminals and uncharged metal parts |
| Contact resistance                          | 25MΩ or less (initial value)                                                                         |
| Withstand Voltage (EN60947-5-1)             | Between homopolar terminals: 2.5kV(quick-action type) / 4kV(slow-action type)                        |
|                                             | Between heteropolar terminals: 2.5kV(slow-action type)                                               |
|                                             | Between charged metal parts: 4kV                                                                     |
|                                             | Between terminals and uncharged metal parts: 6kV                                                     |
| Rated Insulation Voltage (Ui)               | 600V(EN60947-5-1)                                                                                    |
| Reverse Voltage when on/off                 | 1500V max.(EN60947-5-1)                                                                              |
| Pollution degree (environmental conditions) | Pollution degree 3(EN60947-5-1)                                                                      |
| Electric shock proof protection grade       | Class I (with ground terminal)                                                                       |
| Vibration                                   | Malfunction: 10~55Hz 0.75mm single amplitude                                                         |
| Shock resistant                             | Duration: 1,000m/s <sup>2</sup>                                                                      |
|                                             | Malfunction: 300m/s <sup>2</sup>                                                                     |
| Ambient Temperature                         | -20°C~+80°C(No ice or dew)                                                                           |
| Ambient Humidity                            | Less than 95%RH                                                                                      |
| Weight                                      | 250g                                                                                                 |

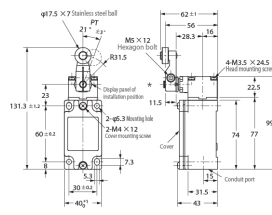
#### Action characteristics

| Action characteristics       |     |       | 15N     | 12N     | 17N     | 18N     | 70N    | 71N    | 72N    | 81N   | 86N   | 87N   |
|------------------------------|-----|-------|---------|---------|---------|---------|--------|--------|--------|-------|-------|-------|
| Action force                 | OF  | Max.  | 9.41N   | 9.41N   | 2.12N   | 9.41N   | 18.63N | 18.63N | 18.63N | 1.47N | 1.47N | 1.47N |
| Restore force                | RF  | Min.  | 1.47    | 1.47N   | 0.29N   | 1.47N   | 1.96N  | 1.96N  | 1.96N  | -     | -     | -     |
| Pretravel                    | PT  | -     | 21° ±3° | 21° ±3° | 21° ±3° | 21° ±3° | 2mm    | 2mm    | 2mm    | 15    | 15    | 15    |
|                              | PT  | (2nd) | (45°)   | (45°)   | (45°)   | (45°)   | (3mm)  | (3mm)  | (3mm)  | -     | -     | -     |
| Overtravel                   | OT  | Min.  | 50°     | 50°     | 50°     | 50°     | 5mm    | 5mm    | 5mm    | -     | -     | -     |
| Poor response travel         | MD  | Max.  | 12°     | 12°     | 12°     | 12°     | 1mm    | 1mm    | 1mm    | -     | -     | -     |
| Force disconnected pretravel | DOT | Min.  | 35°     | 35°     | 35°     | 35°     | 3.2mm  | 3.2mm  | 3.2mm  | -     | -     | -     |
|                              | DOT | Min.  | 55°     | 55°     | 55°     | 55°     |        |        |        | -     | -     | -     |
| Force disconnected force     | DOF | Min.  | 19.61N  | 19.61N  | 19.61N  | 19.61N  | 49.03N | 49.03N | 49.03N | -     | -     | -     |
| Total travel                 | TT  | -     | (75°)   | (75°)   | (75°)   | (75°)   | (7mm)  | (7mm)  | (7mm)  | -     | -     | -     |
| Free position                | FP  | Max.  | -       | -       | -       | -       | 38mm   | 51mm   | 51mm   | -     | -     | -     |
| Action position              | OP  | -     | -       | -       | -       | -       | 35±1mm | 48±1mm | 48±1mm | -     | -     | -     |

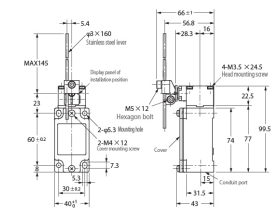




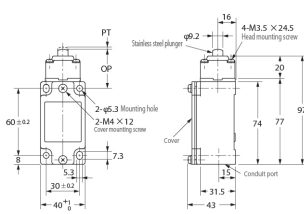
C4B-4112N



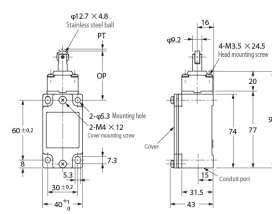
C4B-4115N



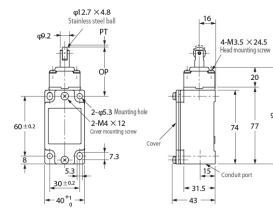
C4B-4117N



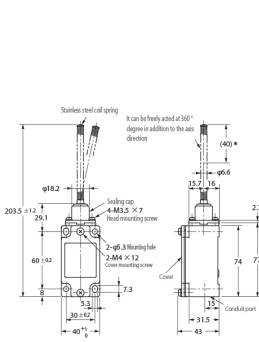
C4B-4170N



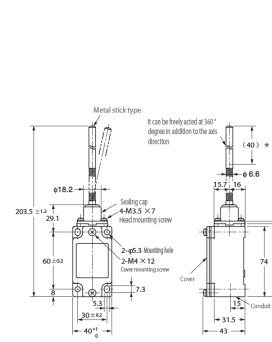
C4B-4171N



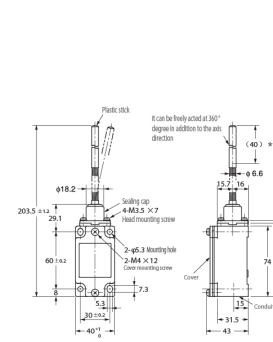
C4B-4172N



C4B-4181N



C4B-4186N



C4B-4187N

C4B Series

| รุ่น<br>(Model) | ลักษณะ<br>หน้าสัมผัสทำงาน    | Rated<br>Current / Voltage | Contact Type  | Terminal<br>Type |
|-----------------|------------------------------|----------------------------|---------------|------------------|
| C4B-4112N       | Adjustable Roller Lever      | 10A / 250V                 | DPDT 1NO, 1NC | SCREW<br>TYPE    |
| C4B-4115N       | Roller Lever                 | 10A / 250V                 | DPDT 1NO, 1NC |                  |
| C4B-4117N       | Adjustable Rod Lever         | 10A / 250V                 | DPDT 1NO, 1NC |                  |
| C4B-4170N       | Top Plunger                  | 10A / 250V                 | DPDT 1NO, 1NC |                  |
| C4B-4171N       | Roller Plunger               | 10A / 250V                 | DPDT 1NO, 1NC |                  |
| C4B-4172N       | Cross Roller Plunger         | 10A / 250V                 | DPDT 1NO, 1NC |                  |
| C4B-4181N       | Coil Spring                  | 10A / 250V                 | DPDT 1NO, 1NC |                  |
| C4B-4186N       | Metal Stick                  | 10A / 250V                 | DPDT 1NO, 1NC |                  |
| C4B-4187N       | Coil Spring With Plastic End | 10A / 250V                 | DPDT 1NO, 1NC |                  |

