

# CR series


**NEW**

## Product composition

|               |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                     |                                                                                     |                                  |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|
| Model         | Push button switch                                                                  |                                                                                     |                                                                                       |                                                                                       | High-end Control switch                                                             |                                                                                     |                                  |
|               | Flat Ø30                                                                            | Flat Ø25                                                                            | Protrusion Ø30                                                                        | Protrusion Ø25                                                                        |                                                                                     |                                                                                     |                                  |
| Appearance    |    |    |     |    | New product assembly<br>Indicator light<br>Rectangular indicator light              |                                                                                     |                                  |
| Actuator code | CRF-F30                                                                             | CRF-F25                                                                             | CRF-P30                                                                               | CRF-P25                                                                               | Power switch<br>Main switch                                                         |                                                                                     |                                  |
| Model         | Illuminated pushbutton switch                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                     |                                                                                     | Cam switch                       |
|               | Flat Ø30                                                                            | Protrusion Ø30                                                                      | Protective guard Ø30                                                                  | Flat Ø25                                                                              | Protrusion Ø25                                                                      | Protective guard Ø25                                                                |                                  |
| Appearance    |    |    |      |     |  |  | Limit switch                     |
| Actuator code | CRX-F30                                                                             | CRX-P30                                                                             | CRX-G30                                                                               | CRX-F25                                                                               | CRX-P25                                                                             | CRX-G25                                                                             | Micro switch                     |
| Model         | Indicator light                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                     |                                                                                     | Foot switch<br>Mono lever switch |
|               | Flat Ø30                                                                            |                                                                                     |                                                                                       | Flat Ø25                                                                              |                                                                                     |                                                                                     |                                  |
| Appearance    |   |                                                                                     |                                                                                       |   |                                                                                     |                                                                                     | Hoist switch                     |
| Actuator code | CRP-30                                                                              |                                                                                     |                                                                                       | CRP-25                                                                                |                                                                                     |                                                                                     |                                  |
| Model         | Selector switch                                                                     |                                                                                     |                                                                                       |                                                                                       | Appearance                                                                          | Actuator code                                                                       |                                  |
|               | Short lever                                                                         |                                                                                     | Long lever                                                                            |                                                                                       |                                                                                     |                                                                                     |                                  |
|               | Flat Ø30                                                                            | Flat Ø25                                                                            | Flat Ø30                                                                              | Flat Ø25                                                                              |                                                                                     |                                                                                     |                                  |
| Appearance    |  |  |   |  |                                                                                     |                                                                                     |                                  |
| Actuator code | CRS-30                                                                              | CRS-25                                                                              | CRSL-30                                                                               | CRSL-25                                                                               |                                                                                     |                                                                                     |                                  |
| Model         | Illuminated selector switch                                                         |                                                                                     |                                                                                       |                                                                                       | 외형                                                                                  | Actuator code                                                                       |                                  |
|               | Flat Ø30                                                                            | Flat Ø25                                                                            | Flat Ø30                                                                              | Flat Ø25                                                                              |                                                                                     |                                                                                     |                                  |
| Appearance    |  |  |   |  |                                                                                     |                                                                                     |                                  |
| Actuator code | CRT-30                                                                              | CRT-25                                                                              | CRTL-30                                                                               | CRTL-25                                                                               |                                                                                     |                                                                                     |                                  |
| Model         | KEY selector switch                                                                 |                                                                                     |                                                                                       |                                                                                       | Appearance                                                                          | Actuator code                                                                       |                                  |
|               | Flat Ø30                                                                            |                                                                                     | Flat Ø25                                                                              |                                                                                       |                                                                                     |                                                                                     |                                  |
| Appearance    |  |                                                                                     |  |                                                                                       |                                                                                     |                                                                                     |                                  |
| Actuator code | CRK-30                                                                              |                                                                                     | CRK-25                                                                                |                                                                                       |                                                                                     |                                                                                     |                                  |

 New product  
Control switch

 High-end  
Control switch

 New product  
assembly  
Indicator light  
Rectangular  
Indicator light

 Power switch  
Main switch

Cam switch

 Limit  
switch

 Micro  
switch

 Foot switch  
Mono lever  
switch

 Hoist  
switch

# CONTROL SWITCHES

| Model         | Emergency stop switch                                                              |                                                                                      |
|---------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|               | Flat Ø30                                                                           | Flat Ø25                                                                             |
| Appearance    |   |   |
| Actuator code | CRE-30M                                                                            | CRE-25M                                                                              |
| Appearance    |   |   |
| Actuator code | CRE-30R                                                                            | CRE-25R                                                                              |
| Model         | Illuminated emergency stop switch                                                  |                                                                                      |
|               | Flat Ø30                                                                           | Flat Ø25                                                                             |
| Appearance    |   |   |
| Actuator code | CRA-30M                                                                            | CRA-25M                                                                              |
| Appearance    |   |   |
| Actuator code | CRA-30R                                                                            | CRA-25R                                                                              |
| Model         | Buzzer                                                                             |                                                                                      |
|               | Flat Ø30                                                                           | Flat Ø25                                                                             |
| Appearance    |  |  |
| Actuator code | CRB-30                                                                             | CRB-25                                                                               |

## Accessories

| Model             | Emergency protection cover                                                          |                                                                                     | Front protective cover                                                              |                                                                                     | Silicone cover                                                                      |                                                                                      | Tightening tool                                                                       |                                                                                       |                                                                                       |
|-------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                   | HEG-25 (Protrusion)                                                                 | HEG-30 (Protrusion)                                                                 | HSC-25P (Protrusion)                                                                | HSC-30P (Protrusion)                                                                | CR-25WPC                                                                            | CR-30WPC                                                                             | FIX HEAD-CR25                                                                         | FIX HEAD-CR30                                                                         | FIX HANDLE                                                                            |
| Application Model | CRE-25, CRA-25                                                                      | CRE-30, CRA-30                                                                      | CRF-F25, CRX-F25                                                                    | CRF-F30, CRX-F30                                                                    | Ø25                                                                                 | Ø30                                                                                  | Ø25                                                                                   | Ø30                                                                                   | Handle                                                                                |
| Appearance        |  |  |  |  |  |  |  |  |  |

## Suffix Code

| Model              | Code | Content                           |
|--------------------|------|-----------------------------------|
| CRF -              | □    | Push button switch                |
| CRX -              | □    | Illuminated pushbutton switch     |
| CRP -              | □    | Indicator light                   |
| CRS -              | □    | Selector short lever switch       |
| CRSL -             | □    | Selector long lever switch        |
| CRT -              | □    | Illuminated selector switch       |
| CRTL -             | □    | Illuminated long lever switch     |
| CRK -              | □    | Key selector switch               |
| CRE -              | □    | Emergency stop switch             |
| CRA -              | □    | Illuminated emergency stop switch |
| CRB-               | □    | Buzzer                            |
| Control part shape | F30  | Ø30 Flat                          |
|                    | P30  | Ø30 Protrusion                    |
|                    | G30  | Ø30 Protective guard              |
|                    | F25  | Ø25 Flat                          |
|                    | P25  | Ø25 Protrusion                    |
|                    | G25  | Ø25 Protective guard              |

## Specification

|                                   |             |                                                                                       |
|-----------------------------------|-------------|---------------------------------------------------------------------------------------|
| Contact configuration             |             | 1a1b                                                                                  |
| Contact operation                 |             | Slow-make                                                                             |
| Installation panel thickness      |             | 1 ~ 6 mm (excluding accessories)                                                      |
| Rated voltage / power consumption |             | 100-240 V a.c. / 4.4 VA or less                                                       |
|                                   |             | 380 V a.c. / 2.7 VA or less                                                           |
|                                   |             | 12-24 V d.c. / 18 mA or less                                                          |
| Allowable operating frequency     | Mechanical  | 30 times/min or less                                                                  |
|                                   | Electrical  | 30 times/min or less                                                                  |
| Insulation Resistance             |             | 100MΩ or more                                                                         |
| Withstand voltage                 |             | 1500 V a.c. 50/60 Hz 1 minute                                                         |
| Vibration resistance              | Malfunction | 10-55 Hz double amplitude width 3 mm                                                  |
| Shock resistance                  | Mechanical  | 500 m/s or more                                                                       |
|                                   | Malfunction | 100 m/s or more                                                                       |
| life                              | Mechanical  | 10,000 times or more                                                                  |
|                                   | Electrical  | 100,000 times or more                                                                 |
| Ambient temperature and humidity  |             | -25 ~ 40 °C, 45 ~ 85 % RH                                                             |
| Storage temperature               |             | -40 ~ 60°C                                                                            |
| Certification                     |             |  |