

CR series

Push button switch


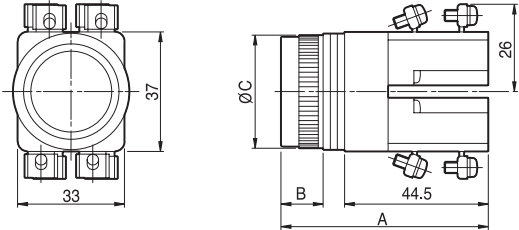
Suffix code

Model	Code	Description
CR-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	CR series push button switch
Installing dimension	25	Ø25
	30	Ø30
Type classification	1	Push button switch (Momentary operation)
Contact composition	1	1a1b Contact
	2	2a2b Contact
Cap color	R	Red
	G	Green
	Y	Yellow
	B	Blue
	K	Black

Specification

Model	Dimension	Operation function	Contact composition	Rated current	Color of button cap
CR-251-1	Ø25	Momentary operation	1a1b Contact	5 A 250 V a.c	Red, Green, Yellow, Blue and Black
CR-251-2			2a2b Contact		
CR-301-1	Ø30		1a1b Contact		
CR-301-2			2a2b Contact		

Dimension (unit : mm)

Model	Design	Dimension												
CR-251 (Ø25) CR-301 (Ø30)		 <table border="1" data-bbox="853 1646 1236 1758"> <thead> <tr> <th>Model</th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>CR-251</td> <td>63</td> <td>12</td> <td>29,5</td> </tr> <tr> <td>CR-301</td> <td>64</td> <td>13</td> <td>34</td> </tr> </tbody> </table>	Model	A	B	C	CR-251	63	12	29,5	CR-301	64	13	34
Model	A	B	C											
CR-251	63	12	29,5											
CR-301	64	13	34											

CR series

Emergency stop push button switch

●● Suffix code

Model	Code	Description
CR-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	CR series emergency stop push button switch
Installing dimension	25	Ø25
	30	Ø30
Type classification	7	Emergency stop push button switch (momentary operation)
	7R	Emergency stop push button switch (push lock-turn reset)
Contact composition	1	1a1b Contact
	2	2a2b Contact
Cap color	R	Red
	G	Green

●● Specification

Model	Dimension	Operation function	Contact composition	Rated current	Color of button cap
CR-257-1	Ø25	Momentary operation	1a1b Contact	5 A 250 V a.c	red and green
CR-257-2			2a2b Contact		
CR-307-1	Ø30		1a1b Contact		
CR-307-2			2a2b Contact		
CR-257R-1	Ø25	Push lock-turn reset	1a1b Contact	5 A 250 V a.c	red and green
CR-257R-2			2a2b Contact		
CR-307R-1	Ø30		1a1b Contact		
CR-307R-2			2a2b Contact		

※ Default color of the emergency stop push button switch cap is red. Please order separately for the green color.

Control switch
Combination display light

Power switch
Main switch
Cam switch

Limit switch
Micro switch

Hoist switch
Foot switch
Mono lever switch


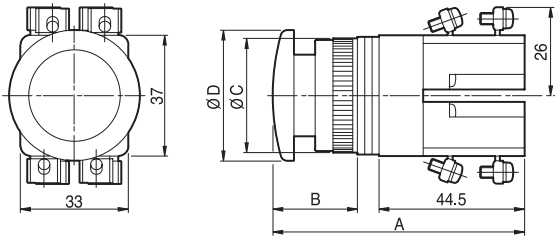
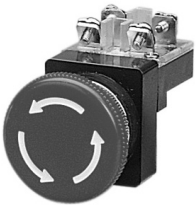
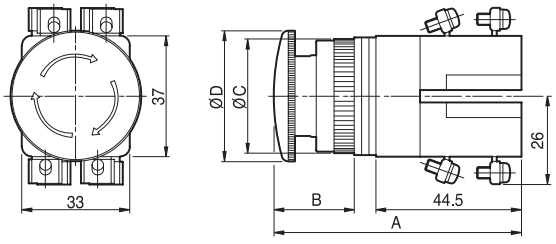
Sign tower
Signal light

Buzzer
Terminal block
Fuse holder

Control box
Cable connector

Discontinued Products

●● Dimension (unit : mm)

Model	Design	Dimension															
CR-257 (Ø25, Momentary operation) CR-307 (Ø30, Momentary operation)		 <table border="1" data-bbox="778 627 1235 743"> <thead> <tr> <th>Model</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>CR-257</td> <td>75.5</td> <td>24.5</td> <td>29.5</td> <td>35</td> </tr> <tr> <td>CR-307</td> <td>76.5</td> <td>24.5</td> <td>34</td> <td>40</td> </tr> </tbody> </table>	Model	A	B	C	D	CR-257	75.5	24.5	29.5	35	CR-307	76.5	24.5	34	40
Model	A	B	C	D													
CR-257	75.5	24.5	29.5	35													
CR-307	76.5	24.5	34	40													
CR-257R (Ø25, push lock-turn reset) CR-307R (Ø30, push lock-turn reset)		 <table border="1" data-bbox="778 1033 1235 1149"> <thead> <tr> <th>Model</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>CR-257R</td> <td>75.5</td> <td>24.5</td> <td>29.5</td> <td>40</td> </tr> <tr> <td>CR-307R</td> <td>75.5</td> <td>24.5</td> <td>34</td> <td>46</td> </tr> </tbody> </table>	Model	A	B	C	D	CR-257R	75.5	24.5	29.5	40	CR-307R	75.5	24.5	34	46
Model	A	B	C	D													
CR-257R	75.5	24.5	29.5	40													
CR-307R	75.5	24.5	34	46													

CR series

Pilot lamp

●● Suffix code

Model	Code	Description
CR-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	CR series indicator
Installing dimension	25	Ø25
	30	Ø30
Type classification	2	Pilot lamp (Transformer attached type)
	1	Pilot lamp (Without voltage dropping unit : 24 V d.c/a.c)
Power supply voltage	0	24 V d.c/a.c
	1	110 V a.c
	2	220 V a.c
	3	380 V a.c
	4	440 V a.c
Light source selection	L	LED (luminescent diode)
		Incandescent lamp
Cap color	R	Red
	G	Green
	Y	Yellow
	B	Blue
	W	White

●● Specification

■ Transformer attached type

Model	Installing dimension	Lamp voltage (Trans attached)		Color of lamp cap
		1st voltage	2nd voltage	
CR-252-1	Ø25	110 V a.c	6.3 V a.c	Red, green, yellow, blue and white
CR-252-2		220 V a.c		
CR-252-3		380 V a.c		
CR-252-4		440 V a.c		
CR-302-1	Ø30	110 V a.c	6.3 V a.c	Red, green, yellow, blue and white
CR-302-2		220 V a.c		
CR-302-3		380 V a.c		
CR-302-4		440 V a.c		

■ Without voltage dropping unit

Model	Installing dimension	Power supply voltage	Color of lamp cap
CR-2510	Ø25	24 V d.c/a.c	red, green, yellow, blue , white
CR-3010	Ø30	24 V d.c/a.c	red, green, yellow, blue , white

※ In case of the pilot lamp without voltage dropping unit, please refer to the "incandescent lamp and LED specification"

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


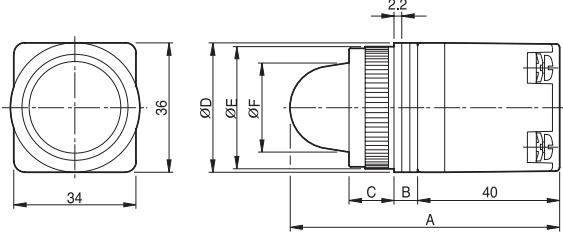

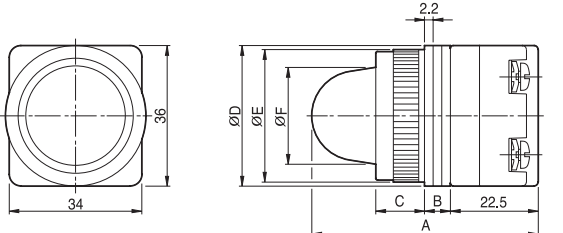
Control box
Cable connector

Discontinued Products

●● Incandescent lamp and LED specification

Classification	Incandescent lamp	LED (luminescent diode)		
		Red	Green	Yellow
Colors	transparent			
Rated current	6.3 V 150 mA	6 V 2.94 mA	6 V 9.6 mA	6 V 29.4 mA
	24 V 40 mA	24 V 10.2 mA	24 V 10.8 mA	24 V 10.2 mA
	110 V 18 mA	110 V 6.0 mA	110 V 4.6 mA	110 V 6.0 mA
	220 V 14 mA	220 V 4.7 mA	220 V 5.1 mA	220 V 4.7 mA
Base rating	E10 (screw type)			

●● Dimension (unit : mm)

Model	Design	Dimension																					
CR-252 (Ø25) CR-302 (Ø30) Transformer attached type		 <table border="1"> <thead> <tr> <th>Model</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>CR-252</td> <td>70</td> <td>6</td> <td>13</td> <td>31.5</td> <td>29.5</td> <td>20</td> </tr> <tr> <td>CR-302</td> <td>73</td> <td>7.5</td> <td>12.5</td> <td>36.5</td> <td>34</td> <td>25</td> </tr> </tbody> </table>	Model	A	B	C	D	E	F	CR-252	70	6	13	31.5	29.5	20	CR-302	73	7.5	12.5	36.5	34	25
Model	A	B	C	D	E	F																	
CR-252	70	6	13	31.5	29.5	20																	
CR-302	73	7.5	12.5	36.5	34	25																	
CR-2510 (Ø25) CR-3010 (Ø30) Without voltage dropping unit		 <table border="1"> <thead> <tr> <th>Model</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>CR-2510</td> <td>54</td> <td>6</td> <td>13</td> <td>31.5</td> <td>29.5</td> <td>20</td> </tr> <tr> <td>CR-3010</td> <td>57</td> <td>7.5</td> <td>12.5</td> <td>31.5</td> <td>34</td> <td>25</td> </tr> </tbody> </table>	Model	A	B	C	D	E	F	CR-2510	54	6	13	31.5	29.5	20	CR-3010	57	7.5	12.5	31.5	34	25
Model	A	B	C	D	E	F																	
CR-2510	54	6	13	31.5	29.5	20																	
CR-3010	57	7.5	12.5	31.5	34	25																	

CR series

Illuminated push button switch

●● Suffix code

Model	Code	Description	
CR-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	CR series illuminated push button switch	
Installing dimension	25	∅25	
	30	∅30	
Type classification	4	Illuminated push button switch (only with 1a1b contact)	
Power supply voltage	24	24 V	Without voltage dropping unit
	1	110 V a.c	
	2	220 V a.c	Transformer attached type
	3	380 V a.c	
	4	440 V a.c	
Light source selection	L	LED (luminescent diode)	
		Incandescent lamp	
Cap color	R	Red	
	G	Green	
	Y	Yellow	
	B	Blue	
	W	White	

※ Illuminated push button switch cannot use 2a2b contact

●● Specification

■ Transformer attached type

Model	Installing dimension	Power supply voltage (Trans attached)		Contact composition	Contact capacity	Color of lamp cap
		1st voltage	2nd voltage			
CR-254-1	∅25	110 V a.c	6.3 V a.c (5.5 V)	1a1b	5 A 250 V a.c	red, green, yellow, blue, white
CR-254-2		220 V a.c				
CR-254-3		380 V a.c				
CR-254-4		440 V a.c				
CR-304-1	∅30	110 V a.c	6.3 V a.c (5.5 V)	1a1b	5 A 250 V a.c	red, green, yellow, blue, white
CR-304-2		220 V a.c				
CR-304-3		380 V a.c				
CR-304-4		440 V a.c				

■ Without voltage dropping unit

Model	Installing dimension	Power supply voltage	Contact composition	Contact capacity	Color of lamp cap
CR-254-24	∅25	Without voltage dropping unit 24 V	1a1b	5 A 250 V a.c	red, green, yellow, blue, white
CR-304-24	∅30				

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


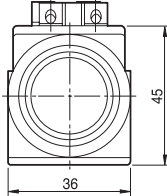
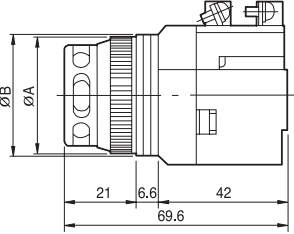
Control box
Cable connector

Discontinued Products

●● Incandescent lamp and LED specification

Classification	Incandescent lamp	LED (luminescent diode)		
Colors	transparent	red	green	yellow
Rated current	6.3 V 150 mA	6 V 2.94 mA	6 V 9.6 mA	6 V 29.4 mA
	24 V 40 mA	24 V 10.2 mA	24 V 10.8 mA	24 V 10.2 mA
	110 V 18 mA	110 V 6.0 mA	110 V 4.6 mA	110 V 6.0 mA
	220 V 14 mA	220 V 4.7 mA	220 V 5.1 mA	220 V 4.7 mA
Base rating	E10 (screw type)			

●● Dimension (unit : mm)

Model	Design	Dimension										
CR-254 (Ø25) CR-304 (Ø30)												
			<table border="1"> <thead> <tr> <th>Model</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>CR-254</td> <td>29.5</td> <td>31.5</td> </tr> <tr> <td>CR-304</td> <td>34.5</td> <td>36.5</td> </tr> </tbody> </table>	Model	A	B	CR-254	29.5	31.5	CR-304	34.5	36.5
Model	A	B										
CR-254	29.5	31.5										
CR-304	34.5	36.5										

CR series

Selector switch


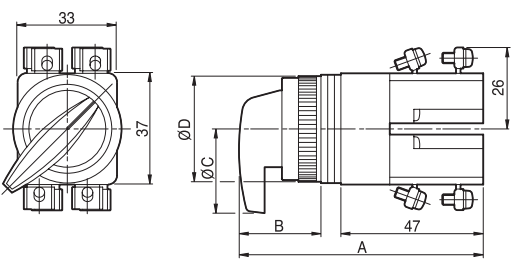
●● Suffix code

Model	Code	Description
CR-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	CR series selector switch
Installing dimension	25	Ø25
	30	Ø30
Type classification	3	Selector switch
2 positions contact composition	1	1a1b Contact
	2	2a2b Contact
3 positions contact composition	3	1a1b Contact
	4	2a2b Contact

●● Specification

Model	Installing dimension	Positions selection	Contact composition	Rated current	Color of actuator
CR-253-1	Ø25	2 positions	1a1b Contact	5 A 250 V a.c	Black
CR-253-2			2a2b Contact		
CR-253-3		3 positions	1a1b Contact		
CR-253-4			2a2b Contact		
CR-303-1	Ø30	2 positions	1a1b Contact	5 A 250 V a.c	Black
CR-303-2			2a2b Contact		
CR-303-3		3 positions	1a1b Contact		
CR-303-4			2a2b Contact		

●● Dimension (unit : mm)

Model	Design	Dimension															
CR-253 (Ø25) CR-303 (Ø30)		 <table border="1" data-bbox="742 1661 1199 1777"> <thead> <tr> <th>Model</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>CR-253</td> <td>81.5</td> <td>16.5</td> <td>23.5</td> <td>31.5</td> </tr> <tr> <td>CR-303</td> <td>82</td> <td>16.5</td> <td>28.5</td> <td>36.5</td> </tr> </tbody> </table>	Model	A	B	C	D	CR-253	81.5	16.5	23.5	31.5	CR-303	82	16.5	28.5	36.5
Model	A	B	C	D													
CR-253	81.5	16.5	23.5	31.5													
CR-303	82	16.5	28.5	36.5													

Control switch
Combination display light

Power switch
Main switch
Cam switch

Limit switch
Micro switch

Hoist switch
Foot switch
Mono level switch

Sign tower
Signal light

Buzzer
Terminal block
Fuse holder

Control box
Cable connector

Discontinued Products

CR series

Key selector switch


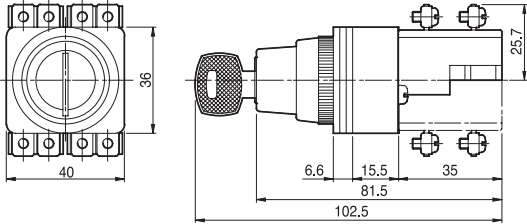
Suffix code

Model	Code	Description
CR-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	CR series key selector switch
Installing dimension	25	Ø25
	30	Ø30
Type classification	11	Key Selector switch
2 positions contact composition	1	1a1b Contact
	2	2a2b Contact
3 positions contact composition	3	1a1b Contact
	4	2a2b Contact
Key removing position	A	Left
	B	Right
	C	Middle
	D	Left / Right

Specification

Model	Installing dimension	Positions selection	Contact composition	Rated current	Key removing position
CR-2511-1	Ø25	2 positions	1a1b Contact	5 A 250 V a.c	A : left B : right C : middle D : left / right
CR-2511-2			2a2b Contact		
CR-2511-3		3 positions	1a1b Contact		
CR-2511-4			2a2b Contact		
CR-3011-1	Ø30	2 positions	1a1b Contact	5 A 250 V a.c	
CR-3011-2			2a2b Contact		
CR-3011-3		3 positions	1a1b Contact		
CR-3011-4			2a2b Contact		

Dimension (unit : mm)

Model	Design	Dimension
CR-2511 (Ø25) CR-3011 (Ø30)		

CR series

Selector push button switch

Selector (select) push button switch?

Besides the general push operation, this refers to a push button switch that can open/close a contact by using a selection ring, a lever, or rotating a button.

In automatic control, this control switch is used when one of two functions is selected and then an operation signal is needed to operate in the function. If the selector push-button switch is selected the desired direction of two directions, it only works (open/close) within the selected direction. It can be viewed as "selector switch" and "push button switch" together which is a convenient switch for machine tools and automatic controls.

Model	Installing dimension	Positions selection	Contact composition	Contact capacity
CR-308	Ø30	2 Positions	Left : 1a1b Contact Right : 1a1b Contact	5 A 250 V a.c
Operation function	Press the actuator after selecting left/right side then only selected position contact will be operated			

Dimension (unit : mm)

Model	Design	Dimension
CR-308 (Ø30)		

Mounting cutout dimension (unit : mm)

Mounting design	Ø25	Ø30
	25.5 (0, +0.5 mm)	30.5 (0, +0.5 mm)
Cutout dimension		

Control switch
Combination display light

Power switch
Main switch
Cam switch

Limit switch
Micro switch

Hoist switch
Foot switch
Mono level switch





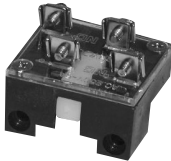
Sign tower
Signal light

Buzzer
Terminal block
Fuse holder

Control box
Cable connector

Discontinued Products

●● Protective cover and contact

Push button protective cover		Contact of each applying switch		
CR-50	CR-60	CR-10	CR-20	CR-30
<p>Ø25 (Mounting design)</p>	<p>Ø30 (Mounting design)</p>	<p>Push button, selector emergency stop (alternative operation)</p>	<p>Illuminated push button for emergency (push lock–turn reset)</p>	<p>Key selector</p>
				

SR series

Push button switch (non-illuminating, illuminating)

- Ø16 panel mounting type
(actuator and contact part detachable)
- Contact part composed of 1a1b and 2a2b
- Light source: incandescent lamp and LED selection
- 3 kinds of actuator and 5 kinds of color
- Various accessories such as guard cover, waterproof cover and etc



●● Suffix code

Model	Code						Description
SRF-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ø16 push button switch
Protective cover	A						Standard type
	B						Waterproof type (Option)
Illumination	F						Non-illuminating type
	X						Illuminating type
Operation function	M						Momentary
	A						Alternate
Shape of actuator			1				Round type
			2				Square type
			3				Rectangle type
Contact composition				1			1a1b Contact
				2			2a2b Contact
Light source and voltage (only illuminating type assigned)					1		6.3 V Incandescent lamp
					2		12 V Incandescent lamp
					3		24 V Incandescent lamp
					4		12 V Luminescent diode (LED)
					5		24 V Luminescent diode (LED)
Color of actuator						R	R (Red), G (Green), Y (Yellow), W (White), B (Blue)

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

Dimension (unit : mm)

■ Non-illuminating type

Model	Design	Dimension
SRF-AFM11R		
SRF-AFM21G		
SRF-AFM31Y		

■ Illuminating type

Model	Design	Dimension
SRF-AXM113R		
SRF-AXM213G		
SRF-AXM313Y		

SR series

Pilot lamp

- One body type (Ø16 panel mounting type)
- Light source: incandescent lamp and LED selection
- Various actuator such as round, square, rectangular type and etc



●● Suffix code

Model	Code	Description
SRP-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Ø16 Pilot lamp
Protective type	A	Standard type
	B	Water proof type (Option)
Actuator type	1	Round type
	2	Square type
	3	Rectangle type
Light source and voltage (Only illuminating type assigned)	1	6.3 V Incandescent lamp
	2	12 V Incandescent lamp
	3	24 V Incandescent lamp
	4	12 V Luminescent diode (LED)
	5	24 V Luminescent diode (LED)
Color of actuator	R	R (Red), G (Green), Y (Yellow), W (White), B (Blue)

●● Dimension (unit : mm)

Model	Design	Dimension
SRP-A1□R		
SRP-A2□G		
SRP-A3□Y		

Control switch
Combination display light

Power switch
Main switch
Cam switch

Limit switch
Micro switch

Hoist switch
Foot switch
Mono level switch

Sign tower
Signal light

Buzzer
Terminal block
Fuse holder

Control box
Cable connector

Discontinued Products

SR series

Selector switch (non-illuminating, illuminating)

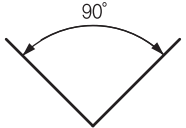
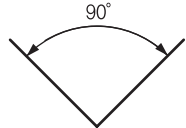
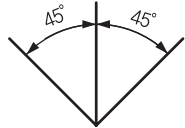
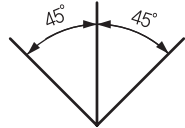
- Detachable type of actuator and contact part (Ø16 panel mounting type)
- Contact part composed of 1a1b and 2a2b
- Light source : incandescent lamp and LED selection
- Various actuator such as round, square, rectangular type and etc



●● Suffix code


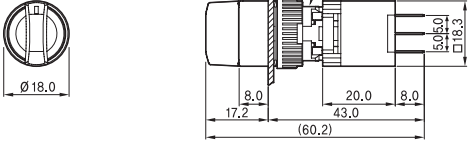

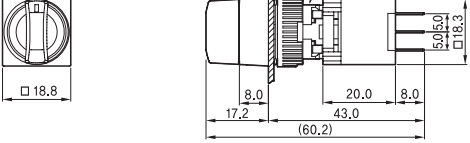

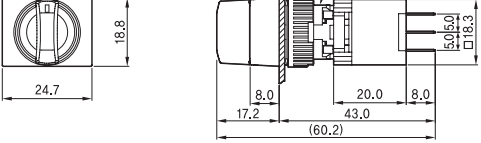
Model	Code					Description
SRS-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ø16 selector switch
Illumination	F					Non-illuminating type
	X					Illuminating type
Actuator type	1					Round type
	2					Square type
	3					Rectangle type
Number of positions	1					2 positions momentary operation
	2					2 positions alternative operation
	3					3 positions alternative operation
	6					3 positions momentary operation
Contact composition	1					1a1b Contact
	2					2a2b Contact
Light source and voltage (Only illuminating type assigned)	1					6.3 V Incandescent lamp
	2					12 V Incandescent lamp
	3					24 V Incandescent lamp
	4					12 V Luminescent diode (LED)
	5					24 V Luminescent diode (LED)
Color of actuator (Only illuminating type assigned)				R		R (Red), G (Green), Y (Yellow), W (White), B (Blue)

●● Actuator of positions and angle


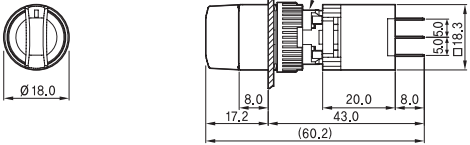

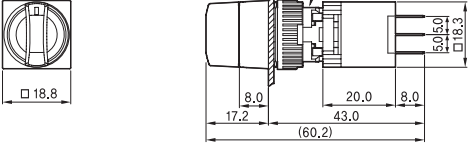

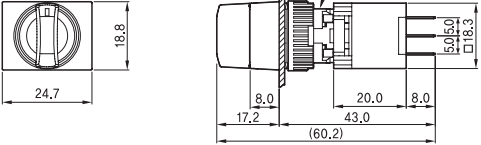
Position selection	2 positions automatic	2 positions manual	3 positions automatic	3 positions manual
Operation angle				

Dimension (unit : mm)

■ Non-illuminating type

Model	Design	Dimension
SRS-F1□□		
SRS-F2□□		
SRS-F3□□		

■ Illuminating type

Model	Design	Dimension
SRS-X1□□□G		
SRS-X2□□□Y		
SRS-X3□□□B		

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

SR series

Key selector switch


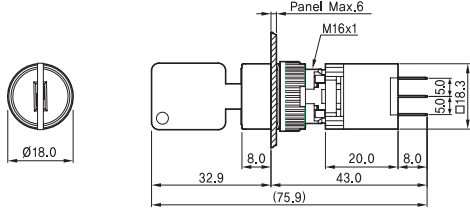

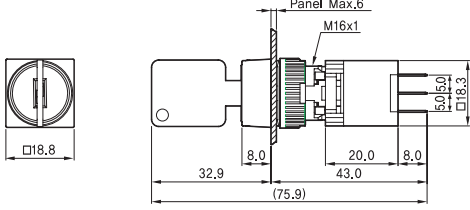

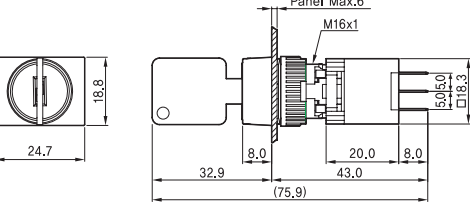
- Actuator and contact part detachable (Ø16 panel mounting type)
- Contact part composed of 1a1b and 2a2b
- Various actuator such as round, square, rectangular type and etc
- 2 positions, 3 positions, momentary type, alternative type and etc



Suffix code

Model	Code	Description
SRK-	□ □ □	Ø16 key selector switch
Actuator type	1	Round type
	2	Square type
	3	Rectangle type
Position selection	1	2 positions momentary operation
	2	2 positions alternative operation
	3	3 positions alternative operation
	6	3 positions momentary operation
Contact composition	1	1a1b Contact
	2	2a2b Contact
Color of actuator		Only black color

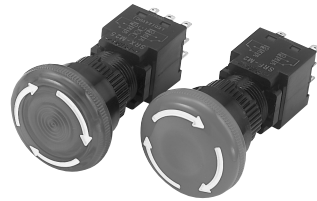
Dimension (unit : mm)

Model	Design	Dimension
SRK-1□□		
SRK-2□□		
SRK-3□□		

SR series

Emergency switch (non-illuminating and illuminating)

- Detachable type of actuator and contact part (Ø16 panel mounting type)
- Contact part composed of 1a1b and 2a2b
- Light source : incandescent Lamp and LED selection
- Push lock-turn reset function



Suffix code

Model	Code	Description
SRE-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Ø16 emergency stop switch (push lock-turn reset)
Illumination	F	Non-illuminating type
	X	Illuminating type
Contact composition	1	1a1b Contact
	2	2a2b Contact
Light source and voltage	1	6.3 V Incandescent lamp
	2	12 V Incandescent lamp
	3	24 V Incandescent lamp
	4	12 V Luminescent diode (LED)
	5	24 V Luminescent diode (LED)
Color of actuator		Red (solid)

Dimension (unit : mm)

Model	Appearance	Dimension
SRE-F□		
SRE-X□□		

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

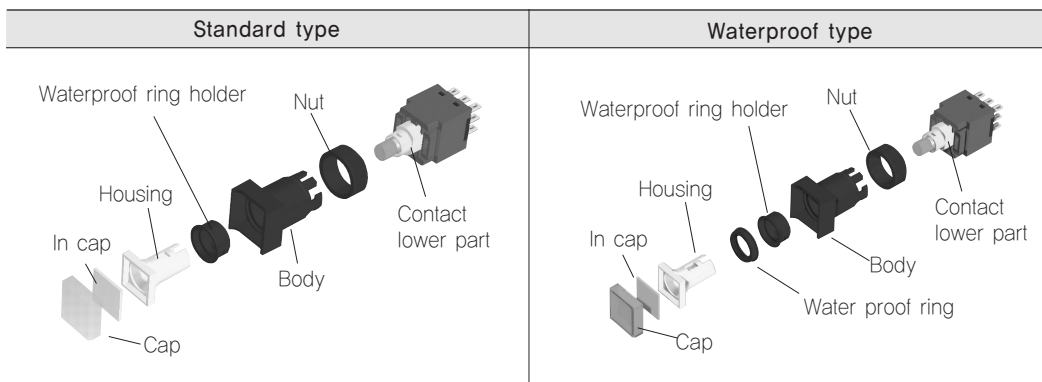
Common specification

Lists	Description
Contact material	Silver contact
Rating	6 A 250 V a.c
Insulation resistance	Min 100 M Ω
Dielectric strength	2,000 V a.c (each 50/60 Hz for 1min)
Vibration resistance	10 – 55 Hz (double amplitude 0.75 mm)
Contact resistance	Max 0.05 Ω (default value) d.c 6 V 0.1 A voltage descending type
Mechanical life expectancy	Above 100thousand times / 1800 h (button switch, illuminating button switch : above 500thousand times / 1800 h)
Electrical life expectancy	70 thousand times (with rated load)
Ambient temperature	-20 °C ~ 50 °C
Ambient humidity	45 ~ 85 % R.H.
Storage temperature	-40 °C ~ 70 °C
Force required for operation	4.50 N

Incandescent lamp and LED specification

Classification	Rated voltage	Rated current
Incandescent lamp	6.3 V a.c/d.c	60 mA
	6.3 V a.c/d.c	40 mA
	6.3 V a.c/d.c	20 mA
LED	12 V d.c	20 mA
	24 V d.c	15 mA
Base rating	BA6S-B (Incandescent lamp, LED)	

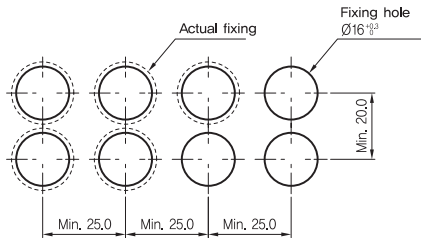
Formation



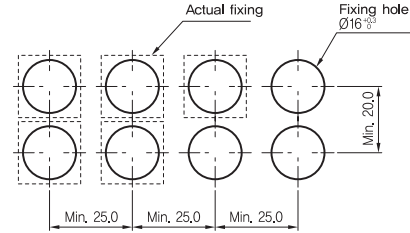
●● Panel cutout and min panel mounting dimension (unit : mm)

■ Standard

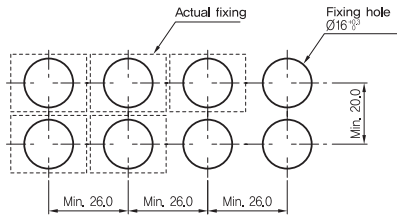
Round type



Square type



Rectangular type



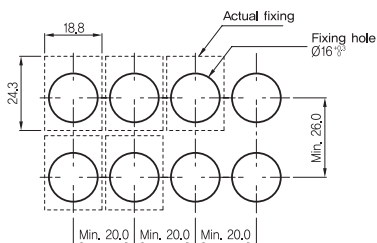
※ Panel mounting thickness 0.5 ~ 6 mm

■ Things to consider when using it

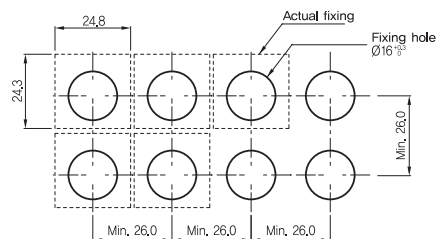
- Soldering the terminal : use soldering iron less than 40W in 40 sec
- Mounting to the panel : tightening torque of nut should be less than 0.49N.m
- Use a spin prevention ring when there are much of vibration
- For the safety after soldering the terminal, please insulate the terminal by tube or etc
- Alphabet film : Please use 0.1 mm thickness of heat-resistant film

■ Attaching the protective cover

Round and square type



Rectangular type



Control switch
Combination display light

Power switch
Main switch
Cam switch

Limit switch
Micro switch

Hoist switch
Foot switch
Mono level switch

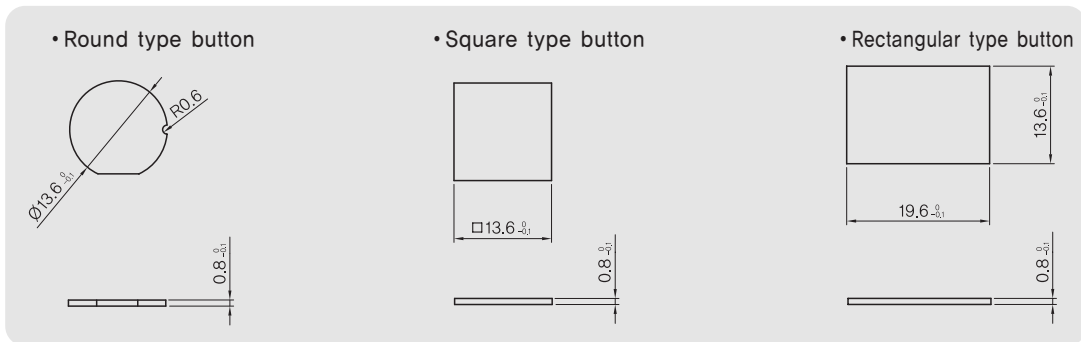
Sign tower
Signal light

Buzzer
Terminal block
Fuse holder

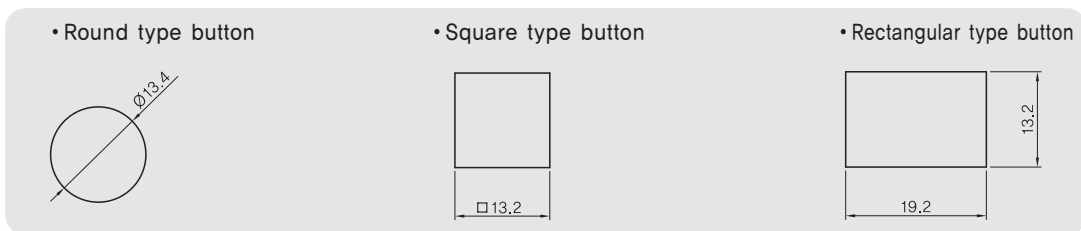
Control box
Cable connector

Discontinued Products

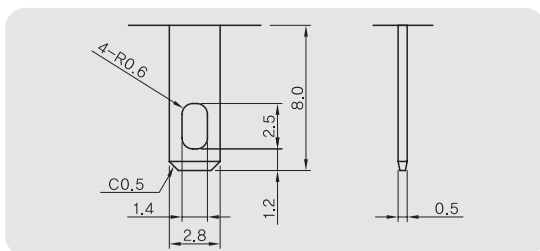
■ In-cap dimension



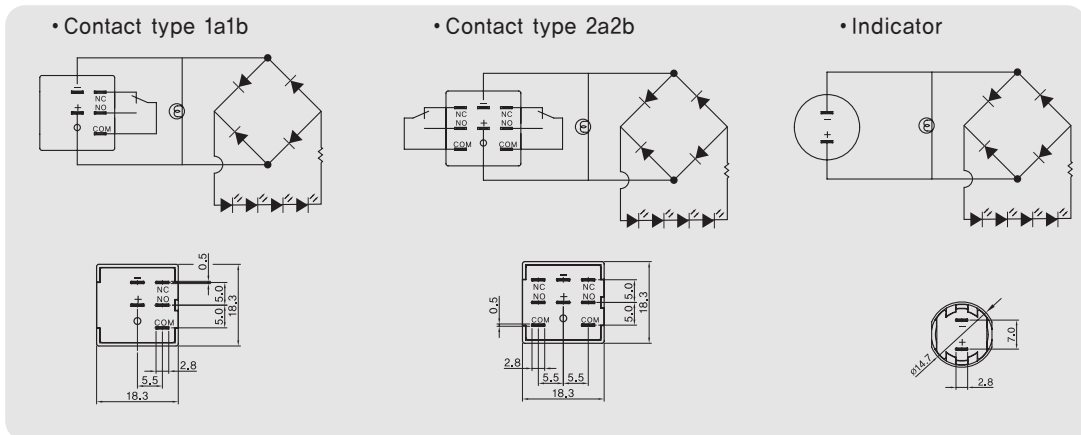
■ Film rating when using the alphabet film



■ Terminal diagram

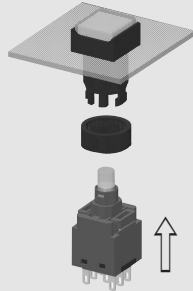


■ Terminal arrangement



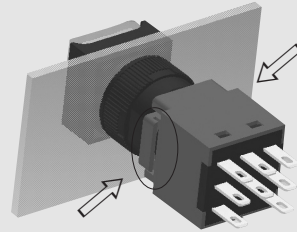
■ Assembling and disassembling method


• Assembling method



Put upper switch part to the panel and tighten it by the nut. Adjust contact part to the groove and press it until it clicks.

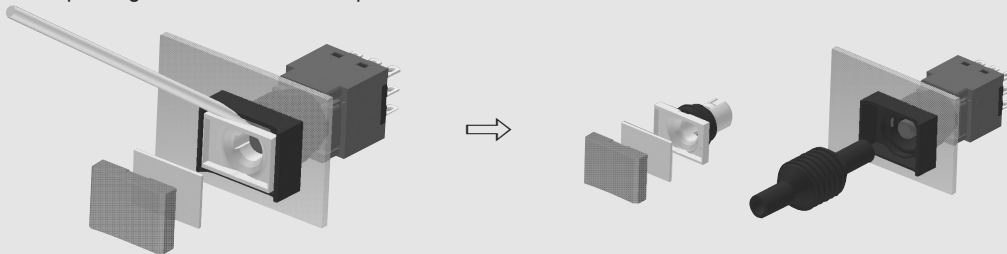
• Disassembling method




Disassemble the contact part by pressing the lever to the indicated arrow direction. By using the contact replacing tool, disassemble the contact part by pressing the () part.

■ Lamp replacing method

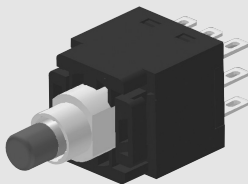
• Replacing from the outside of panel



After turning off the power, disassemble the actuator cap and housing by using a screwdriver or other appropriate tool and replace the lamp by using the lamp extractor. At this moment, please check for the rating and replace the lamp.

※ May damage your hand if lamp is destroyed so please be cautious ( Caution)

• Replacing the contact part



Grip the lamp with your fingertip and pull it. At this moment, please check for the rating and then replace the lamp.

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

●● Suffix code of each part

SR series can clearly divide the suffix code of actuator (illuminating part) and contact part. Please use the suffix code formation which given in the below.

■ Button switch suffix code

Button switch is largely divided into the push button switch, illuminating push button switch, emergency button switch and illuminating emergency button switch and it is compose of actuator and contact part.

Actuator

• Push button, illuminating push button “actuator suffix code”

Model	Code	Description
SRF-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Push button, illuminating push button actuator
Protective structure	A	Standard type
	B	Waterproof type
Actuator type	1	Round type
	2	Square type
	3	Rectangular type
Color of actuator	R	R (Red), G (Green), Y (Yellow), W (White), B (Blue) ※ exclude white and blue incandescent lamp

• Emergency button, illuminating emergency button

Model	Code	Description
SRE-	<input type="checkbox"/>	Emergency button actuator (push lock–turn reset)
Actuator type	X	Illuminating emergency button actuator
	F	Emergency button actuator (non-illuminating)

Contact part

• Push button, illuminating push button “contact part suffix code”

Model	Code	Description
SR	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Push button, illuminating push button, emergency button contact part
Illumination	X	Illuminating
	F	Non-illuminating
Operation function	M	Momentary
	A	Alternate
Contact composition	1	1a1b Contact
	2	2a2b Contact
Light source and voltage (assigned only to the illuminating type)	1	6.3 V incandescent lamp
	2	12 V incandescent lamp
	3	24 V incandescent lamp
	4	12 V luminescent diode (LED)
	5	24 V luminescent diode (LED)
Color of light source (assigned only to the illuminating type)	R	R (Red), G (Green), Y (Yellow), W (White), B (Blue) ※ Emergency switch : only Red color

■ Indicator suffix code

Model	Code	Description
SRP-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Indicator
Protective structure	A	Standard type
	B	Waterproof type
Actuator type	1	Round type
	2	Square type
	3	Rectangular type
Light source and voltage	1	6,3 V incandescent lamp
	2	12 V incandescent lamp
	3	24 V incandescent lamp
	4	12 V luminescent diode (LED)
	5	24 V luminescent diode (LED)
Color of actuator	R	R (Red), G (Green), Y (Yellow), W (White), B (Blue) ※ white and blue incandescent lamp

■ Selector switch suffix code

Selector switch is largely divided into the non-illuminating selector, illuminating selector and key selector and composed of actuator and contact part. (But illuminating type is illuminating contact part) Therefore, it is necessary to indicate the actuator and contact part separately.
 (Caution) Selector contact part is not compatible with other products so please be cautious

Actuator

• Selector switch, illuminating selector switch “actuator suffix code”

Model	Code	Description
SRS-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Selector switch, illuminating selector switch actuator
Actuator type	1	Round type
	2	Square type
	3	Rectangular type
Number of position	1	2 positions momentary operation
	2	2 positions alternative operation
	3	3 positions alternative operation
	6	3 positions momentary operation
Illumination	X	Illuminating
	F	Non-illuminating (only black possible)
Color of actuator (Only for illuminating type)	R	R (Red), G (Green), Y (Yellow), W (White), B (Blue) ※ white and blue incandescent lamp

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

■ Key selector switch “actuator suffix code”








Model	Code	Description
SRK-	<input type="checkbox"/> ; <input type="checkbox"/>	Key selector switch actuator
Actuator type	1	Round type
	2	Square type
	3	Rectangular type
Number of position	1	2 positions momentary operation
	2	2 positions alternative operation
	3	3 positions alternative operation
	6	3 positions momentary operation

Contact part

• Selector, illuminating selector, key selector “contact part suffix code”

Model	Code	Description
SR	<input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Selector, Illuminating selector, Key selector contact part
Illumination	X	Illuminating
	F	Non-illuminating (Including key selector)
Position selection	2	2 positions
	3	3 positions
Contact composition	1	1a1b Contact
	2	2a2b Contact
Light source and voltage (assigned only to the illuminating type)	1	6.3 V Incandescent lamp
	2	12 V Incandescent lamp
	3	24 V Incandescent lamp
	4	12 V Luminescent diode (LED)
	5	24 V Luminescent diode (LED)
Color of light source (assigned only to the illuminating type)	R	R (Red), G (Green), Y (Yellow), W (White), B (Blue)

■ Accessories

Name	Model	Appearance	Reference
Contact	SRX / SRF		6 A 250 V a.c 1a1b / 2a2b
Spin prevention ring	SR-68		Prevent the spinning
Nut tightening tool	SR-448		Used to tightening the fixed nut at the back side of panel
Lamp extractor	SR-81		It is made of rubber and used when replacing the light bulb
Puller	SR-82		Used when replacing the contact after mounting the panel
Protective cover	SR-178		Prevents the switch malfunction (round type and square type)
	SR-239		Prevents the switch malfunction (rectangular type) use it after removing the spin prevention ring

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

SR series

Emergency stop switch

- Ø16 panel mounting type
(actuator and contact part are one body type)
- Contact parts composed of 1a1b and 2a2b
- Push lock–turn reset function



Specification

Model	SRE-121	SRE-122	SRE-121H	SRE-122H
Contact composition	1a1b	2a2b	1a1b	2a2b
Operation function	Push lock–turn reset			
Contact material	Silver contact (gold plating)			
Rated current	3 A 250 V a.c			
Insulation resistance	Min 100 mΩ			
Dielectric strength	1,000 V a.c for 1min (between the terminal and earth)			
Vibration resistance	10 – 55 Hz (double amplitude 0.75 mm)			
Contact resistance	Max 30 mΩ (initial)			
Mechanical life expectancy	Above 200 thousand times (30 times per min)			
Electrical life expectancy	Above 70 thousand times (30 times per min)			
Ambient temperature	–20 ~ 50 °C			
Ambient humidity	45 ~ 85 % R.H			

Dimension (unit : mm)

Model	Appearance	Dimension
SRE-12□		
SRE-12□H		

CR-400 series

Rectangular lamp

- Size of surface 40x32mm
- Light source : incandescent lamp / LED selection
- Change the color of indicator by replacing the alphabet plate
- Easy individual mounting, gathered / assembled mounting
- Gathered / assembled mounting by the + shape connector (die casting)



● Suffix code

Model	Code	Description
CR-40	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	CR series, rectangular indicator
Power supply voltage	1 1	110 V a.c
	1 2	220 V a.c
	1 3	380 V a.c
	1 4	440 V a.c
	2 12	12 V a.c/d.c
	2 24	24 V a.c/d.c
Light source type	-	Incandescent lamp
	L	LED (Incandescent lamp)
Color of indicator	W	W (white) ※ Default color is white and color R, G, Y and B can be purchased by placing a separate order

● Specification

Types	Input voltage	2nd voltage	Power consumption	Color of alphabet plate	Reference
CR-401-1 <input type="checkbox"/>	110 V a.c	6.3 V Trans attached	1.0 W	white, red, green, yellow, blue	<ul style="list-style-type: none"> • Size of alphabet plate (31.5 X 24 mm) • Applying light source (incandescent lamp/LED)
CR-401-2 <input type="checkbox"/>	220 V a.c				
CR-401-3 <input type="checkbox"/>	380 V a.c				
CR-401-4 <input type="checkbox"/>	440 V a.c				
CR-402-12 <input type="checkbox"/>	12 V d.c/a.c	Without voltage dropping unit	1.0 W		
CR-402-24 <input type="checkbox"/>	24 V d.c/a.c				

Control switch
Combination display light

Power switch
Main switch
Cam switch

Limit switch
Micro switch

Hoist switch
Foot switch
Mono lever switch

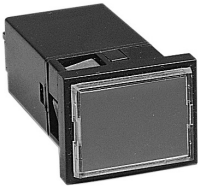
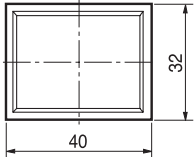
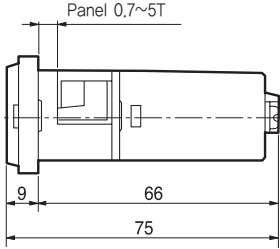
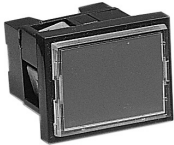
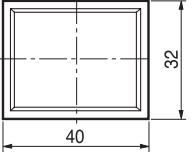
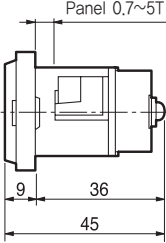
Sign tower
Signal light

Buzzer
Terminal block
Fuse holder

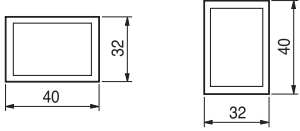
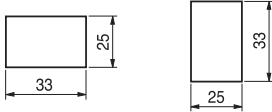
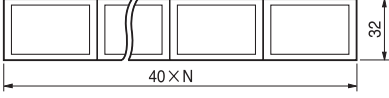
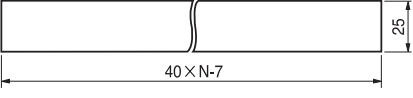
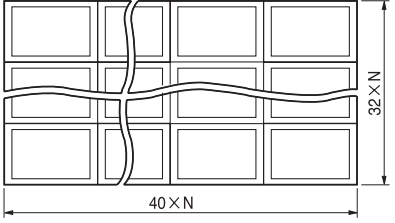
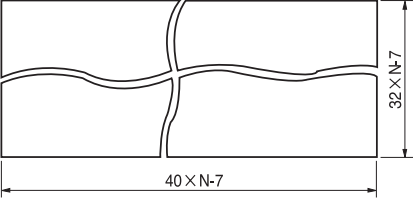
Control box
Cable connector

Discontinued Products

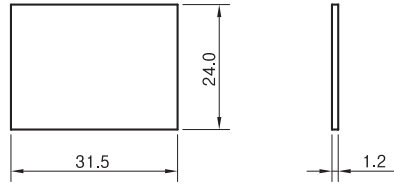
●● Dimension (unit : mm)

Model	Appearance	Dimension	
CR-401 (Trans attached)			
CR-402 (Without voltage dropping unit)			

●● Panel cutout dimension (unit : mm)

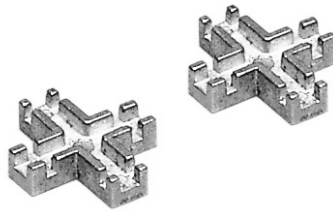
Type	Front view (mm)	Panel cutout dimension (mm)
Independent mounting		
1 row continuous mounting		
Multi rows continuous mounting		

■ Dimension of plate



■ + shape connector when performing the gathered / assembled mounting

(CR-40)



■ Gathered/assembled mounting



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

CD Series

Combination display lights

- 2 types of surface dimension : 30x30mm, 30x40mm
- Applied high brightness square surface LED unit
- 6 types of various indicating colors
- Simple assembling and able to change to color in the field
- Max 200 compositions (10 rows 20 columns)









●● Suffix code

Model	Code	Description	
CD-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	CD series Combination display lights	
Standard type	S	Square type (30 X 30 mm)	
	R	Rectangular type (30 X 40 mm)	
Power supply voltage	A	24 V a.c/d.c	Without voltage dropping
	B	110 V, 125 V d.c	Resistance voltage dropping type
	C	110 V a.c	Condenser voltage dropping type
	D	220 V a.c	
LED indicating color	R	Red	
	G	Green	
	Y	Yellow	
	W	white	
	O	Orange	
	A	Blue	
Surface composition	2	1 row ~ 10 rows	
	6	1 column ~ 20 columns	

●● Surface indication

		Column																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Row	1																				
	2																				
	3																				
	4																				
	5																				
	6																				
	7																				
	8																				
	9																				
	10																				

●● Specification

Power supply voltage	24 V d.c		110 V, 125 V d.c		110 V a.c, 220 V a.c	
Input type	Without voltage dropping type		Resistance voltage dropping type		Condenser voltage dropping type	
Type	CD-SA	CD-RA	CD-SB	CD-RB	CD-SC, SD	CD-RC, RD
Appearance						
LED rated voltage	24 V d.c					
LED base	Exclusive unit					
LED color	red, green, yellow, white, orange and blue					
Insulation resistance	Min 100 M Ω					
Dielectric voltage	2,000 V a.c (for one minute)					
Power consumption	0.68 W (24 V d.c, 20 mA)					
Life expectancy	50,000 hours (24 V d.c, 25 °C)					
Ambient temperature	-20 °C ~ 40 °C					
Ambient humidity	-25 °C ~ 55 °C					
Storage temperature	45 ~ 85 % R.H					
Weight	About 65 g	About 80 g	About 75 g	About 90 g	About 80 g	About 93 g

Control switch
Combination display light

Power switch
Main switch
Cam switch

Limit switch
Micro switch

Hoist switch
Foot switch
Mono lever switch

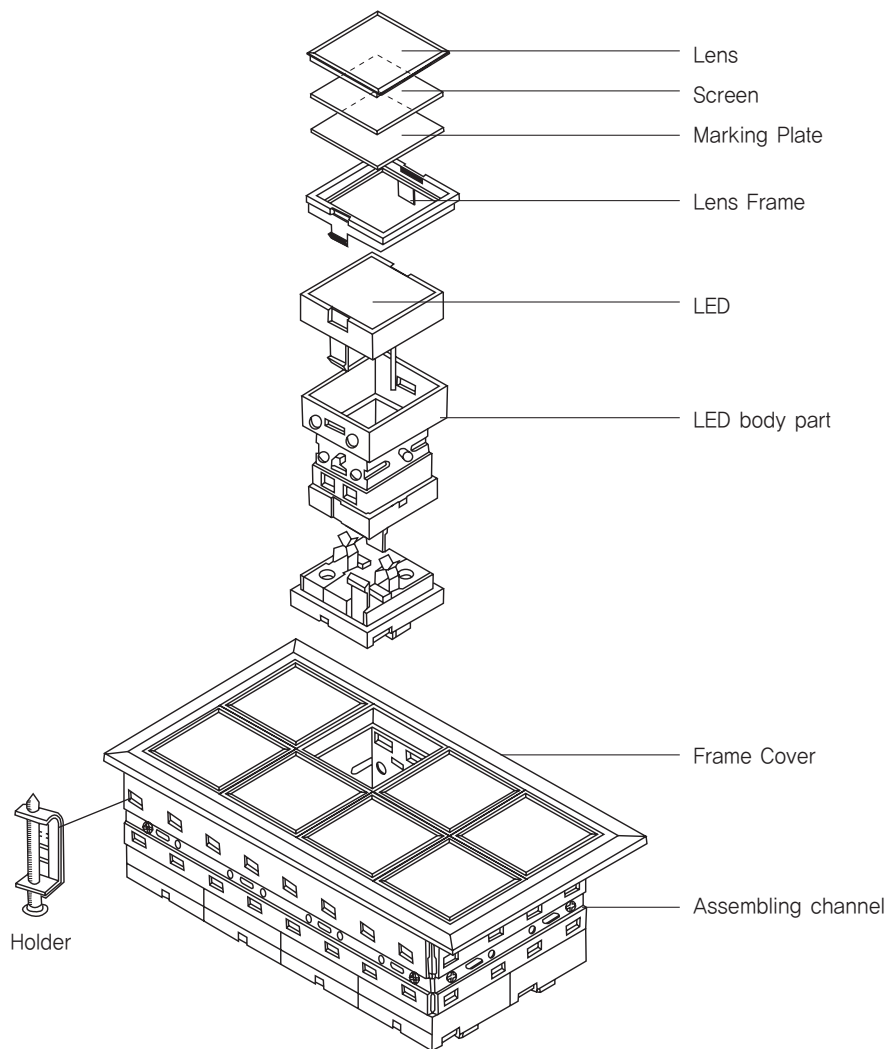
Sign tower
Signal light

Buzzer
Terminal block
Fuse holder

Control box
Cable connector

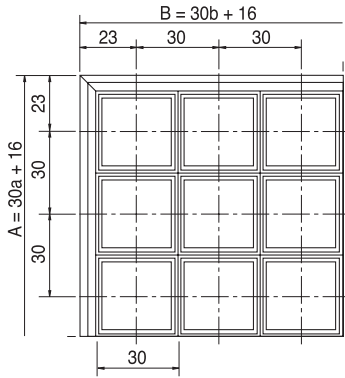
Discontinued Products

●● Nomenclature

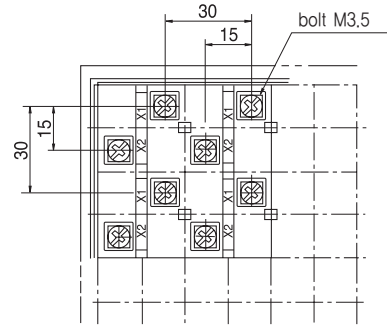


●● Dimension (CD-S : 30×30) (unit : mm)

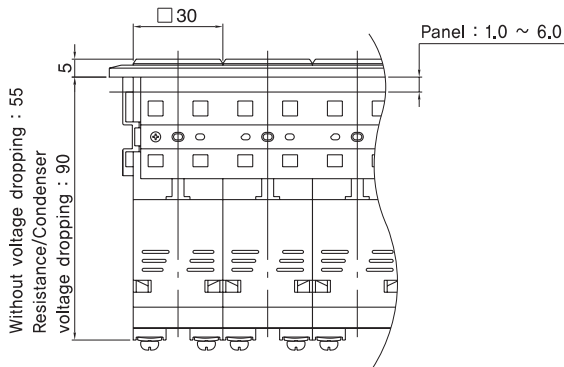
Front side view



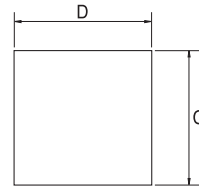
Back side view



Side view

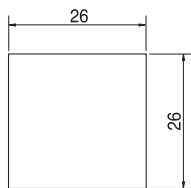


Panel cutout



- ※ C : 30n+5(n : number)
- ※ D : 40n+5(n : number)
- ※ Please refer to panel cut out chart

Marking plate



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

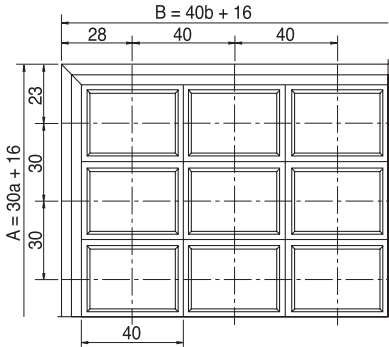
●● Panel cutout chart (CD-S : 30×30) (unit : mm)

Row	Column	b	01	02	03	04	05	06	07	08	09	10
	Dimension (Panel cutout)	B	46	76	106	136	166	196	226	256	286	316
a	A	(D) (C)	(35)	(65)	(95)	(125)	(155)	(185)	(215)	(245)	(275)	(305)
01	46	(35)	1	2	3	4	5	6	7	8	9	10
02	76	(65)	2	4	6	8	10	12	14	16	18	20
03	106	(95)	3	6	9	12	15	18	21	24	27	30
04	136	(125)	4	8	12	16	20	24	28	32	36	40
05	166	(155)	5	10	15	20	25	30	35	40	45	50
06	196	(185)	6	12	18	24	30	36	42	48	54	60
07	226	(215)	7	14	21	28	35	42	49	56	63	70
08	256	(245)	8	16	24	32	40	48	56	64	72	80
09	286	(275)	9	18	27	36	45	54	63	72	81	90
10	316	(305)	10	20	30	40	50	60	70	80	90	100

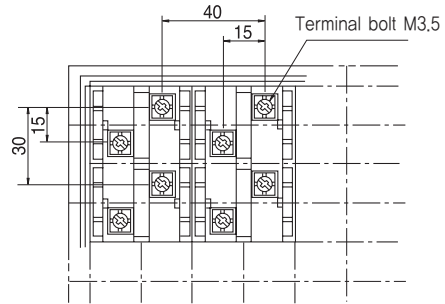
Row	Column	b	11	12	13	14	15	16	17	18	19	20
	Dimension (Panel cutout)	B	346	376	406	436	466	496	526	556	586	616
a	A	(D) (C)	(335)	(365)	(395)	(425)	(455)	(485)	(515)	(545)	(575)	(605)
01	46	(35)	11	12	13	14	15	16	17	18	19	20
02	76	(65)	22	24	26	28	30	32	34	36	38	40
03	106	(95)	33	36	39	42	45	48	51	54	57	60
04	136	(125)	44	48	52	56	60	64	68	72	76	80
05	166	(155)	55	60	65	70	75	80	85	90	95	100
06	196	(185)	66	72	78	84	90	96	102	108	114	120
07	226	(215)	77	84	91	98	105	112	119	126	133	140
08	256	(245)	88	96	104	112	120	128	136	144	152	160
09	286	(275)	99	108	117	126	135	144	153	162	171	180
10	316	(305)	110	120	130	140	150	160	170	180	190	200

Dimension (CD-R : 30×40) (unit : mm)

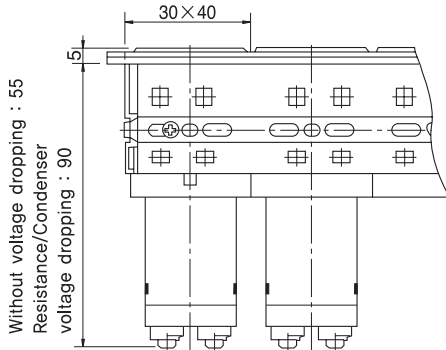
Front side view



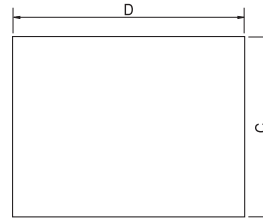
Back side view



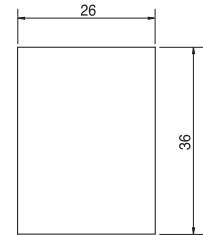
Side view



Panel cutout



Marking plate



- ※ C : 30n+5 (n : number)
- ※ D : 40n+5 (n : number)
- ※ Please refer to panel cut out chart

Panel cutout chart (CD-R : 30×40) (unit : mm)

Row	Column		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
	Dimension (Panel cutout)	B	56	96	136	176	216	256	296	336	376	416	456	496	536	576	616	656
a	A	(D) (C)	(45)	(85)	(125)	(165)	(205)	(245)	(285)	(325)	(365)	(405)	(445)	(485)	(525)	(565)	(605)	(645)
01	46	(35)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
02	76	(65)	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
03	106	(95)	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
04	136	(125)	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
05	166	(155)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
06	196	(185)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
07	226	(215)	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112
08	256	(245)	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128
09	286	(275)	9	18	27	36	45	54	63	72	81	90	99	108	117	126	135	144
10	316	(305)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160

Control switch
Combination display light

Power switch
Main switch
Cam switch

Limit switch
Micro switch

Hoist switch
Foot switch
Mono layer switch

Sign tower
Signal light

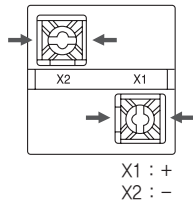
Buzzer
Terminal block
Fuse holder

Control box
Cable connector

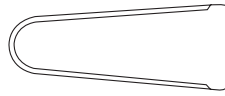
Discontinued Products

Terminal wiring and parts

Wiring direction diagram



L.E.D and cover puller



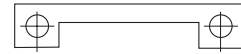
CD-10

Vertical terminal



CD-203
CD-204

Horizontal terminal

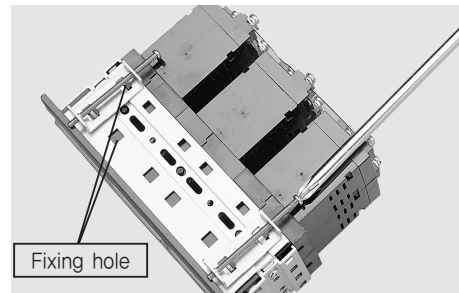


CD-303
CD-304

Holder quantity and holder position by the composition of assembled indicator

• Holder quantity

width \ height	1-2	3-8	9-15	16-20
1-2	2	4	6	8
3-6	4(6)	6(8)	8	10
7-10	6(8)	8	10	12



• Holder position

width \ height	1-2	3-8	9-15	16-20
1-2				
3-6				
7-10				

Precautions

- When mounting the panel, select the thickness after considering the weight of device body part (such as assembled indicator and etc), weight of cables (by wiring) and etc.
- For the assembled type above 3x6, please have the gap (more than 50mm) in the left/right direction and wiring direction
- When replacing the LED luminous element, must turn OFF the indicator and replace it
- D.C rated voltage of LED luminous element indicates complete direct current voltage. Also, full-wave rectified or pulsating voltage might lead an error in measurement depending on the measuring instrument so please be cautious
- In case of PCB, overall weight will exceed 1kg once combining more than 12 devices so please consider the thickness of panel and combine them.
- Common of assembled indicator is composed of ⊕