

## PUSH BUTTON SWITCHES (ex : CRF-F25M1R)

Model	Code	Content
CRF-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Push Button Switch
Actuator	F	Flush
	P	Extended
Installing hole	25	Ø25
	30	Ø30
Operation function	M	Momentary
	A	Alternate
Contact configuration	1	1a1b
	2	2a2b
Actuator color (cap color)	R	R (Red), G (Green), Y (Yellow), A (Blue), W (White), <b>B(Black)</b>

## ILLUMINATED PUSH BUTTON SWITCHES (ex : CRX-F25MAR)

Model	Code	Content	
CRX-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Illuminated Push Button Switch	
Actuator	F	Flush	
	P	Extended	
	G	Protective guide type	
Installing hole	25	Ø25	
	30	Ø30	
Operation function	M	Momentary	
	A	Alternate	
Rated input voltage (power voltage)	A	100 - 240 VAC	LED (condenser voltage dropping type)
	D	12 - 24 VDC / AC	LED (resistance voltage dropping type)
Actuator color (cap color)	R	R (Red), G (Green), Y (Yellow), A (Blue), W (White), <b>B(Black)</b>	

※ Basic contact configuration: 1a1b

## PILOT LAMPS (ex : CRP-25AR)

Model	Code	Content	
CRP-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Pilot Lamp	
Installing hole	25	Ø25	
	30	Ø30	
Power voltage	A	100 - 240 VAC	LED (condenser voltage dropping type)
	D	12 - 24 VDC / AC	LED (resistance voltage dropping type)
Actuator color (cap color)	R	R (Red), G (Green), Y (Yellow), A (Blue), W (White), <b>B(Black)</b>	

## SHORT LEVER SELECTOR SWITCHES (ex : CRS-252A1)

Model	Code	Content
CRS-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Selector Switch
Installing hole	25	Ø25
	30	Ø30
Operation function	2A	2 positions alternate operation
	2R	2 positions momentary operation
	3A	3 positions alternate operation
	3R	3 positions momentary operation
Contact configuration	1	1a1b
	2	2a2b
Actuator color		Black (solid)

## LONG LEVER SELECTOR SWITCHES (ex : CRSL-252A1)

Model	Code	Content
CRSL-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Selector Switch
Installing hole	25	Ø25
	30	Ø30
Operation function	2A	2 positions alternate operation
	2R	2 positions momentary operation
	3A	3 positions alternate operation
	3R	3 positions momentary operation
Contact configuration	1	1a1b
	2	2a2b
Actuator color		Black (solid)

## ILLUMINATED SELECTOR SWITCHES (ex : CRT-252AAR)

Model	Code	Content	
CRT-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Illuminated Selector Switch	
Installing hole	25	Ø25	
	30	Ø30	
Operation function	2A	2 positions alternate operation	
	2R	2 positions momentary operation	
	3A	3 positions alternate operation	
	3R	3 positions momentary operation	
Power voltage	A	100 - 240 VAC	LED (condenser voltage dropping type)
	D	12 - 24 VDC / AC	LED (resistance voltage dropping type)
Actuator color	R	R (Red), G (Green), Y (Yellow), A (Blue), W (White) ※ Order-made BR (Black handle/Red indicator), BG (Black handle/Green indicator) BY (Black handle/Yellow indicator), BA (Black handle/Blue indicator) BW (Black handle/White indicator)	

※ Basic contact configuration: 1a1b

## KEY SELECTOR SWITCHES (ex : CRK-253A1C)

Model	Code	Content
CRK-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Key Selector Switch
Installing hole	25	Ø25
	30	Ø30
Operation function	2A	2 positions alternate operation
	2R	2 positions momentary operation
	3A	3 positions alternate operation
	3R	3 positions momentary operation
Contact configuration	1	1a1b
	2	2a2b
Key removing position	L	Left
	R	Right
	C	Center
		With 2-position models, the center key removing position is excluded

## EMERGENCY STOP SWITCHES (ex : CRE-25M1R)

Model	Code	Content
CRE-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Emergency Push Button Switch
Installing hole	25	Ø25
	30	Ø30
Operation function	M	Momentary
	R	Push lock turn reset
Contact configuration	1	1a1b
	2	2a2b
Actuator color (cap color)	R	R (Red), G (Green), Y (Yellow)

## ILLUMINATED EMERGENCY STOP SWITCHES (ex : CRA-25MAR)

Model	Code	Content	
CRA-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Illuminated Emergency Push Button Switch	
Installing hole	25	Ø25	
	30	Ø30	
Operation function	M	Momentary	
	R	Push lock turn reset	
Power voltage	A	100 - 240 VAC	LED (condenser voltage dropping type)
	D	12 - 24 VDC / AC	LED (resistance voltage dropping type)
Actuator color (cap color)	R	R (Red), G (Green), Y (Yellow)	

※ Basic contact configuration 1a1b

## BUZZERS (ex : CRB-25A)

Model	Code	Content
CRB-	<input type="checkbox"/> <input type="checkbox"/>	Buzzer
Installing hole	25	Ø25
	30	Ø30
Power voltage	A	100 - 240 VAC
	D	12 - 24 VDC / AC

Model	PUSH BUTTON SWITCHES					
	Flush Ø30	Flush Ø25	Extended Ø30	Extended Ø25		
Appearance						
Actuator code	CRF-F30	CRF-F25	CRF-P30	CRF-P25		
Model	ILLUMINATED PUSH BUTTON SWITCHES					
	Flush Ø30	Extended Ø30	Protective guide Ø30	Flush Ø25	Extended Ø25	Protective guide Ø25
Appearance						
Actuator code	CRX-F30	CRX-P30	CRX-G30	CRX-F25	CRX-P25	CRX-G25
Model	PILOT LAMPS					
	Flush Ø30	Flush Ø25				
Appearance						
Actuator code	CRP-30	CRP-25				
Model	SELECTOR SWITCHES					
	Short Lever		Long Lever			
	Flush Ø30	Flush Ø25	Flush Ø30	Flush Ø25		
Appearance						
Actuator code	CRS-30	CRS-25	CRSL-30	CRSL-25		
Model	ILLUMINATED SELECTOR SWITCHES					
	Flush Ø30	Flush Ø25				
Appearance						
Actuator code	CRT-30	CRT-25				
Model	KEY SELECTOR SWITCHES					
	Flush Ø30	Flush Ø25				
Appearance						
Model	EMERGENCY STOP BUTTON SWITCHES					
	Flush Ø30	Flush Ø25				
Appearance						
Actuator code	CRE-30M	CRE-25M				
Appearance						
Actuator code	CRE-30R	CRE-25R				
Model	ILLUMINATED EMERGENCY STOP BUTTON SWITCHES					
	Flush Ø30	Flush Ø25				
Appearance						
Actuator code	CRA-30M	CRA-25M				
Appearance						
Actuator code	CRA-30R	CRA-25R				
Model	BUZZERS					
	Flush Ø30	Flush Ø25				
Appearance						
Actuator code	CRB-30	CRB-25				

Contact configuration		1a1b
Operation of contact		Slow-action
Installing panel thickness		1 ~ 6 mm (without the additional accessories)
Rated voltage / Current consumption		100 - 240 V a.c. / Max. 4.4 VA
		380 V a.c. / Max. 2.7 VA
		12-24 V d.c. / Max. 18 mA
Allowable operating frequency	Mechanical	Max. 30 operations/min
	Electrical	Max. 30 operations/min
Insulation resistance		Min.100 M $\Omega$
Dielectric strength		1500 V a.c. 50/60 Hz for 1 min
Vibration	Malfunction Resistance	10 - 55 Hz double amplitude width 3 mm
Shock	Mechanical durability	Min.500 mJ $\xi$
	Malfunction resistance	Min.100 mJ $\xi$
Life	Mechanical	More than 1 million operations
	Electrical	More than 100 thousand operations
Ambient temperature & humidity		-25 ~ 40 °C, 45 ~ 85 % RH
Storage temperature		-40 ~ 60°C