



MR series Control switch

# LED Control switch



contact unit  
 able due to use of LED light  
 d / Plastic guard  
 oe (actuator and contact part)

Flush aluminum guard (MR□ - A)



Ø30

Aluminum guard (MR□ - N)



Ø25

Extended aluminum guard



Ø22

Plastic guard (MR□ - K)



Ø25

Extended plastic guard (MR□ - L)



Ø22

Best Switch

# MR

series  
 Control switch

**Flush**  
Ø25, Ø30

**Extended**  
Ø22

3 Selector switch

4 Key selector switch

5 Emergency stop (Momentary) (Push lock turn reset)

7 Push button switch

8 Pilot lamp

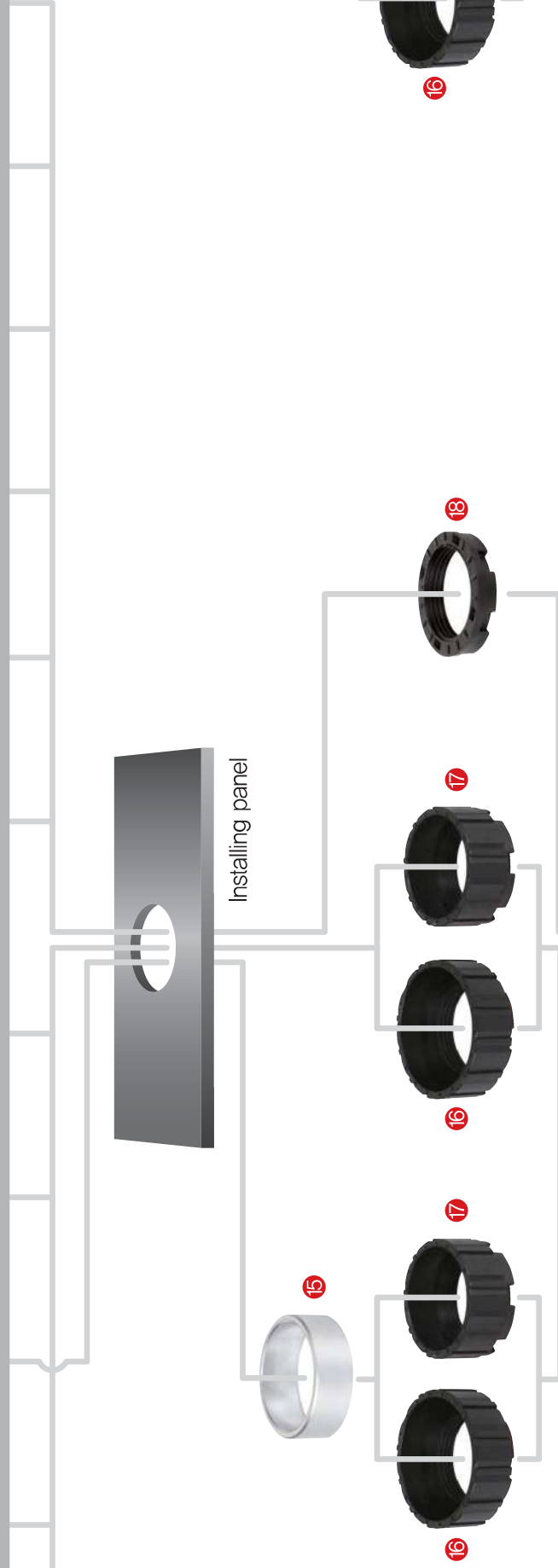
9 Selector switch

10 Key selector switch

11 Emergency stop (Momentary) (Push lock turn reset)

12 Emergency stop (Flush)

Electr.



Installing panel

Installing panel



Fixing plate (MR-FP)

Fixing plate (MR-FP)



Illuminated selector unit (MR-3SL)

※ Install it when using the 3 positions of illuminated selector



Protective cover (MR-AC)



Contact unit (MR-CB)



LED illuminated unit (MR-IR)



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# PILOT LAMP

## Aluminum guard



Model	Code	Description
MRP-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Pilot lamp
Actuator	A	Flush (Installing hole: Ø30)
	N	Flush (Installing hole: Ø25)
	R	Extended (Installing hole: Ø22)
Rated input voltage	A0	100 – 240 V AC
	A3	380 V AC
	D0	12 – 24 V DC/AC
Cap (LED color)	R	R(Red), G(Green), Y(Yellow), A(Blue), W(White)

MRP-A Flush (Ø30)



MRP-N Flush (Ø25)



MRP-R Extended (Ø22)



# SELECTOR SWITCH

## Aluminum guard



Model	Code	Description	
MRS-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Selector switch	
Actuator	A	Flush (Installing hole: Ø30)	
	N	Flush (Installing hole: Ø25)	
	R	Extended (Installing hole: Ø22)	
Operation function	2A	2 positions alternate operation	–
	2R	2 positions momentary operation	
	3A	3 positions alternate operation	–
	3R	3 positions left and right side momentary operation	
Contact composition	1	1a1b	
	2	2a2b	
Actuator color (cap color)		Black (solid)	

MRS-A Flush (Ø30)



MRS-N Flush (Ø25)



MRS-R Extended (Ø22)



# PILOT LAMP

## Plastic guard



Model	Code	Description	
MRP-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Pilot lamp	
Actuator	K	Flush (Installing hole:Ø25)	Plastic guard
	T	Extended (Installing hole:Ø22)	
Rated input voltage	A0	100 – 240 V AC	LED (Condenser voltage dropping type)
	A3	380 V AC	
	D0	12 – 24 V DC/AC	LED (Resistance voltage dropping type)
Cap (LED color)	R	R(Red), G(Green), Y(Yellow), A(Blue), W(White)	

### MRP-K Flush (Ø25)



### MRP-T Extended (Ø22)



# SELECTOR SWITCH

## Plastic guard



Model	Code	Description	
MRS-	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Selector switch	
Actuator	K	Flush (Installing hole:Ø25)	Plastic guard
	T	Extended (Installing hole:Ø22)	
Operation function	2A	2 positions alternate operation	–
	2R	2 positions momentary operation	⏻
	3A	3 positions alternate operation	–
	3R	3 positions left and right side momentary operation	⏻
Contact composition	1	1a1b	
	2	2a2b	
Actuator color (cap color)		Black (solid)	

### MRS-K Flush (Ø25)



### MRS-T Extended (Ø22)



## ■ Suffix code

Model	Code	Description	
MRF -	□	Push button switch	
MRX -		Illuminated push button switch	
MRP -		Pilot light	
MRS -		Selector switch	
MRT -		Illuminated selector switch	
MRK -		Key selector switch	
MRE -		Emergency stop switch	
MRA -		Illuminated emergency stop switch	
MRB -		Electronic buzzer	
Actuator	A	Ø30 Flush	Aluminum guard
	N	Ø25 Flush	
	R	Ø22 Extended	
	K	Ø25 Flush	Plastic guard
	T	Ø22 Extended	

※ Please refer to the above suffix code and check out an operation function, contact composition, color actuator, rated input voltage, etc.

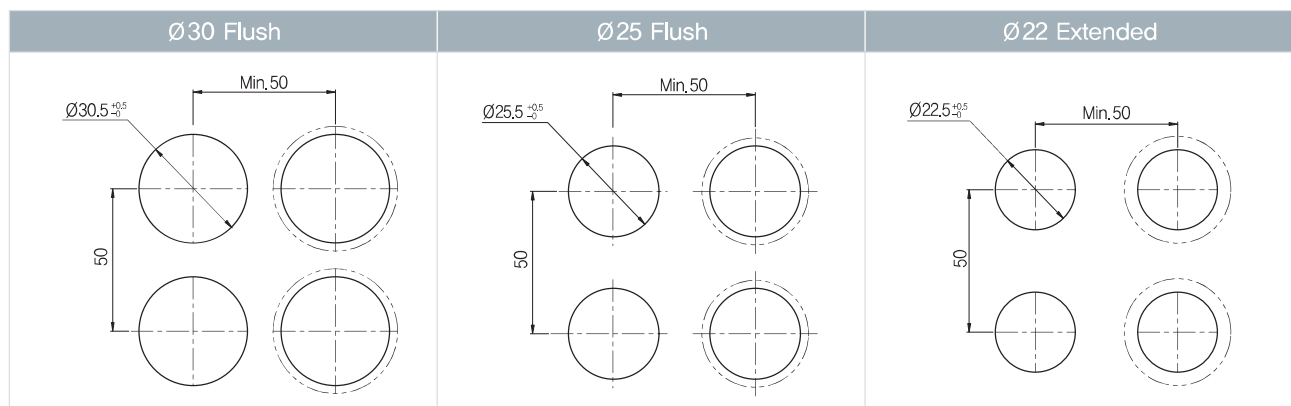
## ■ Specification

Contact composition		1a1b
Contact action		Snap-action
Installing panel thickness		7.0 mm (when excluded the additional accessories)
Material	Contact material	AgSnO <sub>2</sub>
	Contact body material	Polycarbonate (P,C)
Mechanical characteristic	Fixed torque	Installing nut : 1.96 N · m max, Installing nut : 0.78 N · m max
	Operating power	6.47 N (operation part + 1a1b contact)
	Operating distance	5 mm ±0.2
	Reflection time	max 3 ms
	Durability of actuator	Button: min 500 thousand times, Selector switch: min 200 thousand times
Electrical characteristic	Dielectric strength	2,000 V AC 1 min
	Contact resistance	max 50 MΩ (Initial setting)
	Insulation resistance	min 100 MΩ 500 V DC
	Rated current	6 A 250 V AC
	Min load current	5 mA 24 V DC, 10 mA 110 V DC
	Min load current	200 thousand times
Power supply voltage	Power supply voltage	100 – 240 V AC (ED condenser voltage dropping type)
		380 V AC (LED condenser voltage dropping type) 12 – 24 V DC/AC (LED resistance voltage dropping type)
Buzzer volume		Approx. 90 dB
Environment condition	Ambient temperature	-20 ~ 55 °C
	Ambient temperature	35 ~ 85 % RH
	Storage temperature	-40 ~ 85 °C
	Shock resistance	300 % pulse cycle 11 ms
	Vibration resistance	100 % 10 – 55 Hz, amplitude 0.75 mm (within 1 ms )

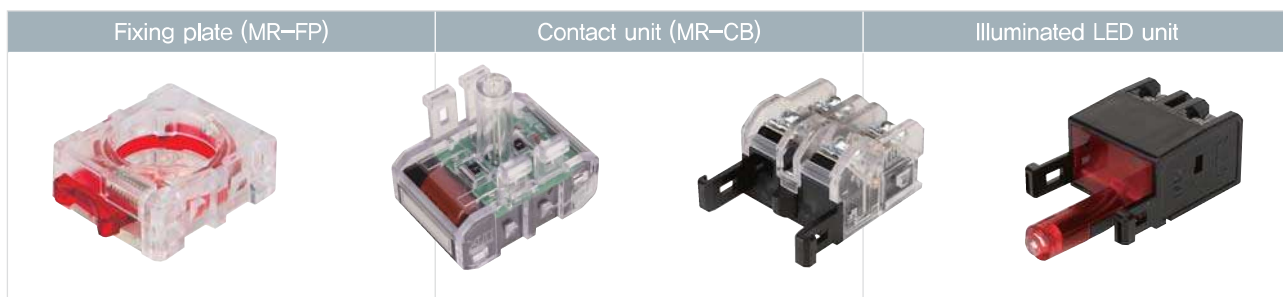
## ■ Actuator panel installation example



## ■ Panel cutout (Unit : mm)

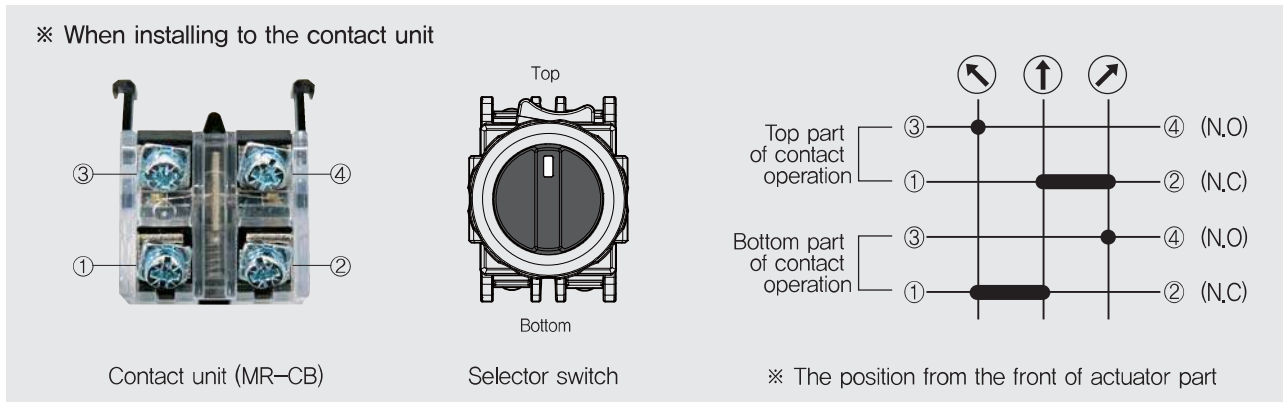


## ■ Contact part composition



## ■ Selector / Key selector contact operation

In case of 3 positions selector, please refer to the contact operation diagram.



## ■ Accessories

Kinds	Appearance	Model	Reference
Contact unit		MR-CB	Hook fixing contact unit which is composed of 1a1b, is assembled to fixing plate.
		MR-CBC	When air-conditioning and refrigerating by slow-action contact (1a1b) and driving an industrial machine's motor, it can be used as START signal and STOP signal in relay's self-hold circuit.
Flush aluminum guard		MR-AGA	Aluminum guard A type panel cutout $\varnothing 30$
		MR-AGN	Aluminum guard N type panel cutout $\varnothing 25$
Extended aluminum guard		MR-AGR	Aluminum guard R type panel cutout $\varnothing 22$
Fixing plate		MR-FP	Connect to actuator, contact unit and lamp unit.
3 positions of illuminated selector unit		MR-3SLA0□	100 – 240 V AC
		MR-3SLA3□	380 V AC
		MR-3SLD0□	12 – 24 V DC/AC
LED Illuminated unit		MR-LBA0□	100 – 240 V AC
		MR-LBA3□	380 V AC
		MR-LBD0□	12 – 24 V DC/AC
Protective cover		MR-AC	Protective cover is installed in opposite side when using only 1 LED illuminated unit or contact unit.



Bright and durable due to use of LED light

# Control switch

## MR series



\* Information in this catalog may change without prior notice for upgrade purpose.

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