

MR series

Control switch (Ø22, Ø25, Ø30)

- Snap-action contact unit
- Bright and durable due to use of LED light
- Aluminum guard / Plastic guard
- Assembling type (actuator and contact part)
- IP65 protective structure (Push button, Pilot lamp, Emergency stop)



Specification

+ Push button switch

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRF-A(Ø30)	MRF-N(Ø25)	MRF-R(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22
Appearance		
Actuator code	MRF-K(Ø25)	MRF-T(Ø22)

+ Illuminated push button switch

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRX-A(Ø30)	MRX-N(Ø25)	MRX-R(Ø22)

Model	Plastic guard		
	Flat Ø25	Flat Ø22	ON / OFF
Appearance			

Actuator code	MRX-K(Ø25)	MRX-T(Ø22)	MRX-WM2
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+ Indicator light

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRP-A(Ø30)	MRP-N(Ø25)	MRP-R(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22
Appearance		
Actuator code	MRP-K(Ø25)	MRP-T(Ø22)

+ Selector switch

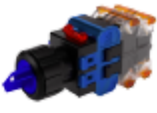
Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRS-A(Ø30)	MRS-N(Ø25)	MRS-R(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22
Appearance		
Actuator code	MRS-K(Ø25)	MRS-T(Ø22)

+ Illuminated selector switch

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22

Appearance			
Actuator code	MRT-A(Ø30)	MRT-N(Ø25)	MRT-R(Ø22)
Appearance			
Actuator code	MRT-A3(Ø30)	MRT-N3(Ø25)	MRT-R3(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22
Appearance		
Actuator code	MRT-K(Ø25)	MRT-T(Ø22)
Appearance		
Actuator code	MRT-K3(Ø25)	MRT-T3(Ø22)

+ KEY selector switch

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Flat Ø22
Appearance			
Actuator code	MRK-A(Ø30)	MRK-N(Ø25)	MRK-R(Ø22)

+ Emergency stop switch

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			

Actuator code	MRE-AM(Ø30)	MRE-NM(Ø25)	MRE-RM(Ø22)
Appearance			
Actuator code	MRE-AR(Ø30)	MRE-NR(Ø25)	MRE-RR(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22
Appearance		
Actuator code	MRE-KM(Ø25)	MRE-TM(Ø22)
Appearance		
Actuator code	MRE-KR(Ø25)	MRE-TR(Ø22)

+ Illuminated emergency stop switch

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRA-AM(Ø30)	MRA-NM(Ø25)	MRA-RM(Ø22)
Appearance			
Actuator code	MRA-AR(Ø30)	MRA-NR(Ø25)	MRA-RR(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22
Appearance		

Actuator code	MRA-KM(Ø25)	MRA-TM(Ø22)
Appearance		
Actuator code	MRA-KR(Ø25)	MRA-TR(Ø22)

+ Buzzer

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRB-A(Ø30)	MRB-N(Ø25)	MRB-R(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22
Appearance		
Actuator code	MRB-K(Ø25)	MRB-T(Ø22)

+ MRF

- Push button switch

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRF-A(Ø30)	MRF-N(Ø25)	MRF-R(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22
Appearance		
Actuator code	MRF-K(Ø25)	MRF-T(Ø22)

- Specification

Contact configuration		M3.5 Screwing, 1a1b
Contact operation		Snap-action
Installation panel thickness		1 ~ 6 mm (excluding accessories)
Terminal Tightening Torque		0.8 N·m max
Installation Nut Tightening Torque		2.0 N·m max
Rated voltage		250 V a.c.
Current Rating		5 A 250 V a.c.
Open/Close Frequency		30 times / min
Insulation resistance		100 MΩ min (500 V d.c.)
Dielectric strength		2,000 V a.c. 50/60 Hz for 1 minute
Contact resistance		50 mΩ or less (default)
Vibration resistance		10 ~ 55 Hz amplitude 1.5 mm
Shock resistance	durability	300 m/s ² min (30 G min)
	Malfunction	100 m/s ² min (10 G min)
Life	mechanical	500,000 times min
	electrical	200,000 times min (Rated load)
minimum load current		5 mA 24 V d.c., 10 mA 110 V d.c.
Light source		100 - 240 V a.c. / 4.4 VA max (LED Condenser voltage drop)
		380 V a.c. / 2.7 VA max (LED Condenser voltage drop)
		12 - 24 V d.c. / a.c. / 18 mA max (LED Resistance voltage drop)
Ambient temperature		-20 ~ 55 °C (However, there must be no freezing or condensation.)
Ambient humidity		45 ~ 85% RH
Storage temperature		-40 ~ 70 °C
Certification		CE

+ MRX**- Illuminated push button switch**

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRX-A(Ø30)	MRX-N(Ø25)	MRX-R(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22
Appearance		
Actuator code	MRX-K(Ø25)	MRX-T(Ø22)

- Specification

Contact configuration		M3.5 Screwing, 1a1b
Contact operation		Snap-action
Installation panel thickness		1 ~ 6 mm (excluding accessories)
Terminal Tightening Torque		0.8 N·m max
Installation Nut Tightening Torque		2.0 N·m max
Rated voltage		250 V a.c.
Current Rating		5 A 250 V a.c.
Open/Close Frequency		30 times / min
Insulation resistance		100 MΩ min (500 V d.c.)
Dielectric strength		2,000 V a.c. 50/60 Hz for 1 minute
Contact resistance		50 mΩ or less (default)
Vibration resistance		10 ~ 55 Hz amplitude 1.5 mm
Shock resistance	durability	300 m/s ² min (30 G min)
	Malfunction	100 m/s ² min (10 G min)
Life	mechanical	500,000 times min
	electrical	200,000 times min (Rated load)
minimum load current		5 mA 24 V d.c., 10 mA 110 V d.c.
Light source		100 - 240 V a.c. / 4.4 VA max (LED Condenser voltage drop)
		380 V a.c. / 2.7 VA max (LED Condenser voltage drop)
		12 - 24 V d.c. / a.c. / 18 mA max (LED Resistance voltage drop)
Ambient temperature		-20 ~ 55 °C (However, there must be no freezing or condensation.)
Ambient humidity		45 ~ 85% RH
Storage temperature		-40 ~ 70 °C
Certification		CE

+ MRP**- Indicator light**

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRP-A(Ø30)	MRP-N(Ø25)	MRP-R(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22
Appearance		
Actuator code	MRP-K(Ø25)	MRP-T(Ø22)

- Specification

Contact configuration		M3.5 Screwing, 1a1b
Contact operation		Snap-action
Installation panel thickness		1 ~ 6 mm (excluding accessories)
Terminal Tightening Torque		0.8 N·m max
Installation Nut Tightening Torque		2.0 N·m max
Rated voltage		250 V a.c.
Current Rating		5 A 250 V a.c.
Open/Close Frequency		30 times / min
Insulation resistance		100 MΩ min (500 V d.c.)
Dielectric strength		2,000 V a.c. 50/60 Hz for 1 minute
Contact resistance		50 mΩ or less (default)
Vibration resistance		10 ~ 55 Hz amplitude 1.5 mm
Shock resistance	durability	300 m/s ² min (30 G min)
	Malfunction	100 m/s ² min (10 G min)
Life	mechanical	500,000 times min
	electrical	200,000 times min (Rated load)
minimum load current		5 mA 24 V d.c., 10 mA 110 V d.c.
Light source		100 - 240 V a.c. / 4.4 VA max (LED Condenser voltage drop)
		380 V a.c. / 2.7 VA max (LED Condenser voltage drop)
		12 - 24 V d.c. / a.c. / 18 mA max (LED Resistance voltage drop)
Ambient temperature		-20 ~ 55 °C (However, there must be no freezing or condensation.)
Ambient humidity		45 ~ 85% RH
Storage temperature		-40 ~ 70 °C
Certification		CE
		RoHS ※ MRP-RA0R Model만 해당

+ MRS**- Selector switch**

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRS-A(Ø30)	MRS-N(Ø25)	MRS-R(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22

Appearance		
Actuator code	MRS-K(Ø25)	MRS-T(Ø22)

- Specification

Contact configuration	M3.5 Screwing, 1a1b	
Contact operation	Snap-action	
Installation panel thickness	1 ~ 6 mm (excluding accessories)	
Terminal Tightening Torque	0.8 N·m max	
Installation Nut Tightening Torque	2.0 N·m max	
Rated voltage	250 V a.c.	
Current Rating	5 A 250 V a.c.	
Open/Close Frequency	30 times / min	
Insulation resistance	100 MΩ min (500 V d.c.)	
Dielectric strength	2,000 V a.c. 50/60 Hz for 1 minute	
Contact resistance	50 mΩ or less (default)	
Vibration resistance	10 ~ 55 Hz amplitude 1.5 mm	
Shock resistance	durability	300 m/s ² min (30 G min)
	Malfunction	100 m/s ² min (10 G min)
Life	mechanical	500,000 times min
	electrical	200,000 times min (Rated load)
minimum load current	5 mA 24 V d.c., 10 mA 110 V d.c.	
Light source	100 - 240 V a.c. / 4.4 VA max (LED Condenser voltage drop)	
	380 V a.c. / 2.7 VA max (LED Condenser voltage drop)	
	12 - 24 V d.c. / a.c. / 18 mA max (LED Resistance voltage drop)	
Ambient temperature	-20 ~ 55 °C (However, there must be no freezing or condensation.)	
Ambient humidity	45 ~ 85% RH	
Storage temperature	-40 ~ 70 °C	
Certification		

+ MRT**- Illuminated selector switch**

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRT-A(Ø30)	MRT-N(Ø25)	MRT-R(Ø22)

Appearance			
Actuator code	MRT-A3(Ø30)	MRT-N3(Ø25)	MRT-R3(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22
Appearance		
Actuator code	MRT-K(Ø25)	MRT-T(Ø22)
Appearance		
Actuator code	MRT-K3(Ø25)	MRT-T3(Ø22)

- Specification

Contact configuration		M3.5 Screwing, 1a1b
Contact operation		Snap-action
Installation panel thickness		1 ~ 6 mm (excluding accessories)
Terminal Tightening Torque		0.8 N·m max
Installation Nut Tightening Torque		2.0 N·m max
Rated voltage		250 V a.c.
Current Rating		5 A 250 V a.c.
Open/Close Frequency		30 times / min
Insulation resistance		100 MΩ min (500 V d.c.)
Dielectric strength		2,000 V a.c. 50/60 Hz for 1 minute
Contact resistance		50 mΩ or less (default)
Vibration resistance		10 ~ 55 Hz amplitude 1.5 mm
Shock resistance	durability	300 m/s ² min (30 G min)
	Malfunction	100 m/s ² min (10 G min)
Life	mechanical	500,000 times min
	electrical	200,000 times min (Rated load)
minimum load current		5 mA 24 V d.c., 10 mA 110 V d.c.
Light source		100 - 240 V a.c. / 4.4 VA max (LED Condenser voltage drop)
		380 V a.c. / 2.7 VA max (LED Condenser voltage drop)
		12 - 24 V d.c. / a.c. / 18 mA max (LED Resistance voltage drop)
Ambient temperature		-20 ~ 55 °C (However, there must be no freezing or condensation.)
Ambient humidity		45 ~ 85% RH
Storage temperature		-40 ~ 70 °C

Certification	
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+ MRK

- KEY selector switch

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRK-A(Ø30)	MRK-N(Ø25)	MRK-R(Ø22)

- Specification

Contact configuration		M3.5 Screwing, 1a1b
Contact operation		Snap-action
Installation panel thickness		1 ~ 6 mm (excluding accessories)
Terminal Tightening Torque		0.8 N·m max
Installation Nut Tightening Torque		2.0 N·m max
Rated voltage		250 V a.c.
Current Rating		5 A 250 V a.c.
Open/Close Frequency		30 times / min
Insulation resistance		100 MΩ min (500 V d.c.)
Dielectric strength		2,000 V a.c. 50/60 Hz for 1 minute
Contact resistance		50 mΩ or less (default)
Vibration resistance		10 ~ 55 Hz amplitude 1.5 mm
Shock resistance	durability	300 m/s ² min (30 G min)
	Malfunction	100 m/s ² min (10 G min)
Life	mechanical	500,000 times min
	electrical	200,000 times min (Rated load)
minimum load current		5 mA 24 V d.c., 10 mA 110 V d.c.
Light source		100 - 240 V a.c. / 4.4 VA max (LED Condenser voltage drop)
		380 V a.c. / 2.7 VA max (LED Condenser voltage drop)
		12 - 24 V d.c. / a.c. / 18 mA max (LED Resistance voltage drop)
Ambient temperature		-20 ~ 55 °C (However, there must be no freezing or condensation.)
Ambient humidity		45 ~ 85% RH
Storage temperature		-40 ~ 70 °C
Certification		

+ MRE

- Emergency stop switch

Model	Aluminum guard
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	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRE-AM(Ø30)	MRE-NM(Ø25)	MRE-RM(Ø22)
Appearance			
Actuator code	MRE-AR(Ø30)	MRE-NR(Ø25)	MRE-RR(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22
Appearance		
Actuator code	MRE-KM(Ø25)	MRE-TM(Ø22)
Appearance		
Actuator code	MRE-KR(Ø25)	MRE-TR(Ø22)

- Specification

Contact configuration		M3.5 Screwing, 1a1b
Contact operation		Snap-action
Installation panel thickness		1 ~ 6 mm (excluding accessories)
Terminal Tightening Torque		0.8 N·m max
Installation Nut Tightening Torque		2.0 N·m max
Rated voltage		250 V a.c.
Current Rating		5 A 250 V a.c.
Open/Close Frequency		30 times / min
Insulation resistance		100 MΩ min (500 V d.c.)
Dielectric strength		2,000 V a.c. 50/60 Hz for 1 minute
Contact resistance		50 mΩ or less (default)
Vibration resistance		10 ~ 55 Hz amplitude 1.5 mm
Shock resistance	durability	300 m/s ² min (30 G min)
	Malfunction	100 m/s ² min (10 G min)
Life	mechanical	500,000 times min
	electrical	200,000 times min (Rated load)
minimum load current		5 mA 24 V d.c., 10 mA 110 V d.c.

Light source	100 - 240 V a.c. / 4.4 VA max (LED Condenser voltage drop)
	380 V a.c. / 2.7 VA max (LED Condenser voltage drop)
	12 - 24 V d.c. / a.c. / 18 mA max (LED Resistance voltage drop)
Ambient temperature	-20 ~ 55 °C (However, there must be no freezing or condensation.)
Ambient humidity	45 ~ 85% RH
Storage temperature	-40 ~ 70 °C
Certification	CE

+ MRA

+ Illuminated emergency stop switch

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRA-AM(Ø30)	MRA-NM(Ø25)	MRA-RM(Ø22)
Appearance			
Actuator code	MRA-AR(Ø30)	MRA-NR(Ø25)	MRA-RR(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22
Appearance		
Actuator code	MRA-KM(Ø25)	MRA-TM(Ø22)
Appearance		
Actuator code	MRA-KR(Ø25)	MRA-TR(Ø22)

- Specification

Contact configuration	M3.5 Screwing, 1a1b
Contact operation	Snap-action
Installation panel thickness	1 ~ 6 mm (excluding accessories)
Terminal Tightening Torque	0.8 N·m max
Installation Nut Tightening Torque	2.0 N·m max

Rated voltage		250 V a.c.
Current Rating		5 A 250 V a.c.
Open/Close Frequency		30 times / min
Insulation resistance		100 MΩ min (500 V d.c.)
Dielectric strength		2,000 V a.c. 50/60 Hz for 1 minute
Contact resistance		50 mΩ or less (default)
Vibration resistance		10 ~ 55 Hz amplitude 1.5 mm
Shock resistance	durability	300 m/s ² min (30 G min)
	Malfunction	100 m/s ² min (10 G min)
Life	mechanical	500,000 times min
	electrical	200,000 times min (Rated load)
minimum load current		5 mA 24 V d.c., 10 mA 110 V d.c.
Light source		100 - 240 V a.c. / 4.4 VA max (LED Condenser voltage drop)
		380 V a.c. / 2.7 VA max (LED Condenser voltage drop)
		12 - 24 V d.c. / a.c. / 18 mA max (LED Resistance voltage drop)
Ambient temperature		-20 ~ 55 °C (However, there must be no freezing or condensation.)
Ambient humidity		45 ~ 85% RH
Storage temperature		-40 ~ 70 °C
Certification		CE K

+ MRB

- Buzzer

Model	Aluminum guard		
	Flat Ø30	Flat Ø25	Protrusion Ø22
Appearance			
Actuator code	MRB-A(Ø30)	MRB-N(Ø25)	MRB-R(Ø22)

Model	Plastic guard	
	Flat Ø25	Protrusion Ø22
Appearance		
Actuator code	MRB-K(Ø25)	MRB-T(Ø22)

- Specification

Contact configuration	M3.5 Screwing, 1a1b
Contact operation	Snap-action
Installation panel thickness	1 ~ 6 mm (excluding accessories)
Terminal Tightening Torque	0.8 N·m max

Installation Nut Tightening Torque		2.0 N·m max
Rated voltage		250 V a.c.
Current Rating		5 A 250 V a.c.
Open/Close Frequency		30 times / min
Insulation resistance		100 MΩ min (500 V d.c.)
Dielectric strength		2,000 V a.c. 50/60 Hz for 1 minute
Contact resistance		50 mΩ or less (default)
Vibration resistance		10 ~ 55 Hz amplitude 1.5 mm
Shock resistance	durability	300 m/s ² min (30 G min)
	Malfunction	100 m/s ² min (10 G min)
Life	mechanical	500,000 times min
	electrical	200,000 times min (Rated load)
minimum load current		5 mA 24 V d.c., 10 mA 110 V d.c.
Light source		100 - 240 V a.c. / 4.4 VA max (LED Condenser voltage drop)
		380 V a.c. / 2.7 VA max (LED Condenser voltage drop)
		12 - 24 V d.c. / a.c. / 18 mA max (LED Resistance voltage drop)
Buzzer volume		Approx. 90 dB
Ambient temperature		-20 ~ 55 °C (However, there must be no freezing or condensation.)
Ambient humidity		45 ~ 85% RH
Storage temperature		-40 ~ 70 °C
Certification		CE

+ MRX-WM2

- Illuminated pushbutton switch

Model	Plastic guard
	ON / OFF
Appearance	
Actuator code	MRX-WM2

- Specification

Contact configuration	M3.5 Screwing, 1a1b
Contact operation	Snap-action
Installation panel thickness	1 ~ 6 mm (excluding accessories)
Terminal Tightening Torque	0.8 N·m max
Installation Nut Tightening Torque	2.0 N·m max
Rated voltage	250 V a.c.
Current Rating	5 A 250 V a.c.
Open/Close Frequency	30 times / min

Insulation resistance		100 MΩ min (500 V d.c.)
Dielectric strength		2,000 V a.c. 50/60 Hz for 1 minute
Contact resistance		50 mΩ or less (default)
Vibration resistance		10 ~ 55 Hz amplitude 1.5 mm
Shock resistance	durability	300 m/s ² min (30 G min)
	Malfunction	100 m/s ² min (10 G min)
Life	mechanical	500,000 times min
	electrical	200,000 times min (Rated load)
minimum load current		5 mA 24 V d.c., 10 mA 110 V d.c.
Light source		100 - 240 V a.c. / 4.4 VA max (LED Condenser voltage drop)
		380 V a.c. / 2.7 VA max (LED Condenser voltage drop)
		12 - 24 V d.c. / a.c. / 18 mA max (LED Resistance voltage drop)
Ambient temperature		-20 ~ 55 °C (However, there must be no freezing or condensation.)
Ambient humidity		45 ~ 85% RH
Storage temperature		-40 ~ 70 °C
Certification		