

Control Switches

MR series (Aluminum guard type) CE

Model	PUSH BUTTON SWITCHES					
	Aluminum guard type			Plastic guard type		
	Flush Ø30	Flush Ø25	Extended Ø22	Flush Ø25	Extended Ø22	
Appearance						
Actuator code	MRF-A (Ø30)	MRF-N(Ø25)	MRF-R(Ø22)	MRF-K(Ø25)	MRF-T(Ø22)	
Model	ILLUMINATED PUSH BUTTON SWITCH					
	Aluminum guard type			Plastic guard type		
	Flush Ø30	Flush Ø25	Extended Ø22	Flush Ø25	Extended Ø22	ON / OFF
Appearance						
Actuator code	MRX-A (Ø30)	MRX-N(Ø25)	MRX-R(Ø22)	MRX-K(Ø25)	MRX-T(Ø22)	MRX-WM2
Model	PILOT LAMPS					
	Aluminum guard type			Plastic guard type		
	Flush Ø30	Flush Ø25	Extended Ø22	Flush Ø25	Extended Ø22	
Appearance						
Actuator code	MRP-A (Ø30)	MRP-N(Ø25)	MRP-R(Ø22)	MRP-K(Ø25)	MRP-T(Ø22)	
Model	SELECTOR SWITCHES					
	Aluminum guard type			Plastic guard type		
	Flush Ø30	Flush Ø25	Extended Ø22	Flush Ø25	Extended Ø22	
Appearance						
Actuator code	MRS-A (Ø30)	MRS-N(Ø25)	MRS-R(Ø22)	MRS-K(Ø25)	MRS-T(Ø22)	
Model	ILLUMINATED SELECTOR SWITCHES					
	Aluminum guard type			Plastic guard type		
	Flush Ø30	Flush Ø25	Extended Ø22	Flush Ø25	Extended Ø22	
Appearance						
Actuator code	MRT-A (Ø30)	MRT-N(Ø25)	MRT-R(Ø22)	MRT-K(Ø25)	MRT-T(Ø22)	
Model	KEY SELECTOR SWITCHES					
	Aluminum guard type					
	Flush Ø30	Flush Ø25	Extended Ø22			
Appearance						
Actuator code	MRK-A (Ø30)	MRK-N(Ø25)	MRK-R(Ø22)			

Control Switches

Model	EMERGENCY STOP BUTTON SWITCHES				
	Aluminum guard type			Plastic guard type	
	Flush Ø30	Flush Ø25	Extended Ø22	Flush Ø25	Extended Ø22
Appearance					
Actuator code	MRE-AM(Ø30)	MRE-NM(Ø25)	MRE-RM(Ø22)	MRE-KM(Ø25)	MRE-TM(Ø22)
Appearance					
Actuator code	MRE-AR(Ø30)	MRE-NR(Ø25)	MRE-RR(Ø22)	MRE-KR(Ø25)	MRE-TR(Ø22)
Model	ILLUMINATED EMERGENCY STOP BUTTON SWITCHES				
	Aluminum guard type			Plastic guard type	
	Flush Ø30	Flush Ø25	Extended Ø22	Flush Ø25	Extended Ø22
Appearance					
Actuator code	MRA-AM(Ø30)	MRA-NM(Ø25)	MRA-RM(Ø22)	MRA-KM(Ø25)	MRA-TM(Ø22)
Appearance					
Actuator code	MRA-AR(Ø30)	MRA-NR(Ø25)	MRA-RR(Ø22)	MRA-KR(Ø25)	MRA-TR(Ø22)
Model	BUZZERS				
	Aluminum guard type			Plastic guard type	
	Flush Ø30	Flush Ø25	Extended Ø22	Flush Ø25	Extended Ø22
Appearance					
Actuator code	MRB-A (Ø30)	MRB-N(Ø25)	MRB-R(Ø22)	MRB-K(Ø25)	MRB-T(Ø22)

Contact unit	MR-CB	
Contact configuration	1a1b	
Operation of contact	Snap-action	
Installing panel thickness	7.0 mm (Without the additional accessories)	
	Plastic guard extended type: 7 mm (without the additional accessories)	
Material	Contact material AgSnO ₂	
	Contact cover material Polycarbonate (PC)	
	Contact body material Polycarbonate (PC)	
Mechanical features	Tightening torque Installing screw : max. 1.9 6 N·m, Terminal screw : max. 0.7 8 N·m	
	Operating distance 5 mm ±0.2	
	Reflection time Max. 3 ms	
	Durability of actuator Button: min 1 million times, Selector switch: min 50 thousand times	
Electrical features	Dielectric strength 2000 V a.c. for 1 min	
	Contact resistance Max. 50 mΩ (default)	
	Insulation resistance Min. 100 MΩ 500 V d.c.	
	Switch rating AC: 6 A 250 V a.c., DC: 10 A 24 V d.c.	
	Min load current 5 ⓧ 24 V d.c., 10 ⓧ 110 V d.c.	
Light source	Electrical durability 500 thousand times (resistive load)	
	Power supply voltage	100 - 240 V a.c. (LED condenser voltage dropping type)
		380 V a.c. (LED condenser voltage dropping type)
12 - 24 V a.c. / d.c. (LED resistance voltage dropping type)		
Environment condition	Ambient temperature & humidity -20 ~ 55 , 35 ~ 85 % RH (without condensation)	
	Storage temperature -40 ~ 85	
	Shock resistance 300 ⓧ pulse cycle 11 ms	
	Vibration resistance 100 ⓧ, 10 Hz - 55 Hz, amplitude 0.75 mm (within 1 ms)	

Temperature Controllers
Recorders
Digital Counter/ Timers
Analog Timers
Multi Pulse Meters
Panel Meters
Peripheral Devices
Proximity Sensors
Photo Sensors
Rotary Encoders
Thyristor Power Regulators
Solid State Relays
Power Supplies
Control Switches / Combination Display Lights
Power / Main / Cam Switches
Limit Switches
Micro Switches
Foot / Mono Lever / Pendant Switches
Signal Lights
Power Buzzers / Terminal Blocks Fuse Holders / Control Boxes