

FEATURES

■Applicable standards

JIS C8151 Indicators for Industrial Use, JIS C4521 Button Switches for Control Use, JIS C4520 General Rules for Control Switches, and JEM1248 Indicators

■Small and light-weight

This is an illuminated type compact pushbutton switch with an LED indicator. It has become much lighter than a transformer or resistor type switch with a incandescent lamp.

■The lamp can be directly illuminated with power source of 110 / 220 V

SPECIFICATIONS (RATINGS, PERFORMANCE)

Specification Type	M22 TYPE		
Rated insulation voltage (Ui)	250V AC / DC		
Rated oparating voltage (Ith)	24, 110, 125, 220V AC / DC		
Rated current-carring capacity	18mA		
Rated withstand voltage	2,500V AC / 1 min.		
Lightning Between live parts (L-L)	±3,000V / 3 times for each pole (1.2 / 50 μs)		
impulse Live part to assemblymounting panel (L-A)	±7,000V / 3 times for each pole (1.2 / 50 μs)		
Operating temperature	−20 to 40°C		
Storing temperature	−30 to 85°C		
Heat resistance	Allowed to stand at 75°C for 24 hours		
Recognizable distance	Illuminance on mounting panel at distance of 10m: 1,000 LX		
Panel thickness	2 to 4mm		
Shock resistance	490 m/S ² or more		
Terminal connection	Faston terminal #187 series: 0.5 to 2.27 mm ²		

■Free of mislighting

Mislighting is prevented by inductive voltage.

■Easy wiring work

The Faston connection method is used to enable rapid wiring work.

■Energy and maintenance work saving

LEDs are used for energy saving and maintenance

■Cable release

The model with a cable release B50 is useful for resetting the thermal relay in the control center or the like.

SPECIFICATION AND PERFORMANCE OF MICROSWITCH

Contact	250V AC 15A (resistance load) 250V AC 10A (inductive load: cosø = 0.6 to 0.7)		
Contact	125V DC 0.6A (resistance load) 125V DC 0.6A (inductive load: L/R = 7ms)		
Contact pushing load	3.9N		
Mechanical life	10,000,000 operations or more		
Electrical life	100,000 operations or more		
Insulation resistance	100MΩ or more (500V DC insulation testing set)		
Withstand voltage	1,000V AC / 1 min. (Between discontinuous terminals)		
Withstand voltage	2,000V AC / 1 min. (Between terminal and ground)		
Wiring terminal	contact a contact b		

PRODUCT CODING M22KT4AC11R11-B Code No. of releases Black ring Basic type No release 4 No. of releases 2 2 * M22KQ and M22KC have no release. No. of contacts Code No. of contacts 0 No switch Color 1C Mechanism Code Lens Button 2C Code Mechanism Supplied voltage R Red Red * Here is blank KQ4 Indicator Code Power source (V) G Green Green for M22KQ. uminated type ushbutton SW KC4 No illumination 0 Orange Orange KT4 Illuminated type outton SW with re AC02 24V AC w White Milky white Pushbutton SW 100 / 110V AC Υ AC11 Yellow Yellow AC12 125V AC С Clear AC22 200 / 220V AC Black DC02 24V DC DC11 100 / 110V DC

DC12

DC22

ACCESSORIES

LED unit



125V DC

200 / 220V DC * M22P has no illumination.

Lens

M22 lens R

Color				
Code	Display color			
R	Red			
G	Green			
Υ	Yellow			
0	Orange			
w	Milky white			
С	Clear			



Applicable types: M22KQ4, M22KC4, M22KT4

Button

M22 button R

Colo		
Code	Display color	400
R	Red	
G	Green	
Υ	Yellow	
0	Orange	
w	White	
В	Black	

Applicable types: M22P

Lens remover





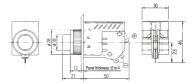


STANDARD PRODUCTS

Indicator



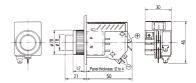




Illuminated type pushbutton with 1C contact

M22KC4 Supplied Color 1-B

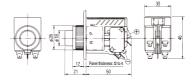




Illuminated type pushbutton with 2C contact

M22KC4 Supplied Color 2-B

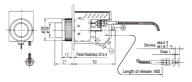




Illuminated type pushbutton with 1 release

M22KT4 Supplied Color 01-B

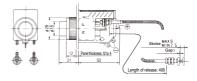




Illuminated type pushbutton with 2 releases

M22KT4 Supplied Color 02-B

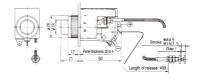




Illuminated type pushbutton with 1C contact and 1 release

M22KT4 Supplied Color 11-B

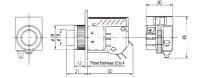




Pushbutton with 1C contact

M22P Color 10-B

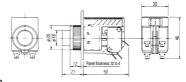




Pushbutton with 2C contact

M22P Color 20-B

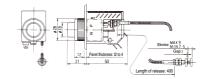




Pushbutton with 1C contact and 1 release

M22P Color 11-B

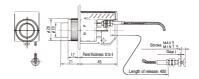




Pushbutton with 1 release

M22P Color 01-B

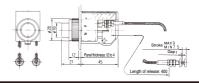




Pushbutton with 2 releases

M22P Color 02-B





■Mounting hole size



■Handling the release

The release is bendable, but its stroke varies. It must be used over a circle with diameter of 50 mm.



■Applicable receptacle (manufactured by AMP) #187 series

Type of	Applicable wire size		Wire insulation		Type of	Instruction manual
receptacle	AWG	mm²	cover size (mm) Material and finish		crimp tool	for crimp tool
60711-1	24-20	0.2 to 0.56	1.02 to 1.78	Brass + Tin plated		
170038-2	20-16	0.5 to 1.42	2.29 to 3.30	Brass + Tin plated	720590-1	013J
170467-1	18-14	0.75 to 2.27	2.20 to 3.40	Phosphorous bronze + Nickel plated		