



## ILLUMINATED PUSHBUTTON SWITCH

**KBL16 Series****CLASSIFICATION****KBL-16 S M - L 1C R 1**

① ② ③ ④ ⑤ ⑥

① SHAPE	NONE	ROUND	NONE	Ø18mm Head
			0	Ø25mm Head FlushType
			1	Ø25mm Head
② ACTUATOR	S	SQUARE		
	R	RECTANGULAR		
	M	MOMENTARY		
③ LAMP	AT	MAINTAINED		
	NONE	FILAMENT LAMP		
	L	LED LAMP		
④ INPUT VOLTAGE	1C	6V		
	2C	12V		
	3C	24V		
⑤ COLOR	R	RED		
	G	GREEN		
	Y	YELLOW		
	O	ORANGE		
	W	WHITE		
	B	BLUE		
⑥ CONTACTS	1	1C		
	2	2C		



CONTROL COMPONENTS

SQUARE LIGHT

TOWER LIGHT

MICRO SWITCH

FOOT SWITCH

LIMIT SWITCH

POWER SWITCH

HOIST SWITCH

CAM SWITCH

BUZZER

PHOTO SENSOR

PROXIMITY SENSOR

FLOATLESS LEVEL SWITCH

TIMER & COUNTER

RELAY

SOCKETS

TERMINAL BLOCK

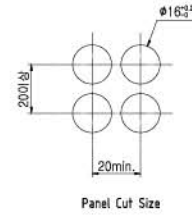
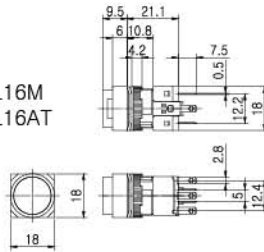
CONTROL BOX

PID TEMP. CONTROLLER

**KBL16**



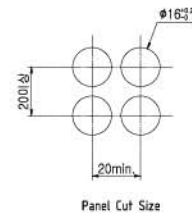
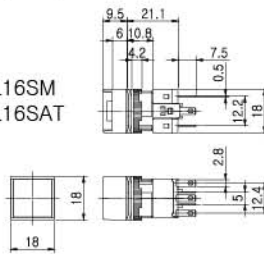
KBL16M  
KBL16AT



**KBL16S**



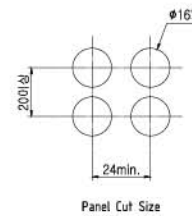
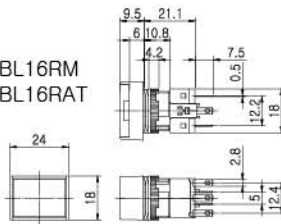
KBL16SM  
KBL16SAT



**KBL16R**



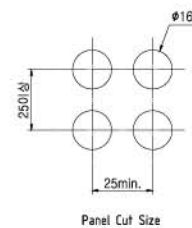
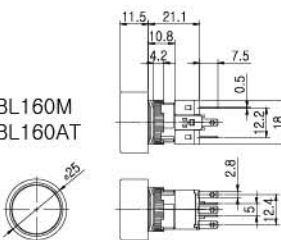
KBL16RM  
KBL16RAT



**KBL160**



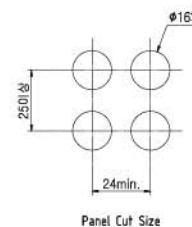
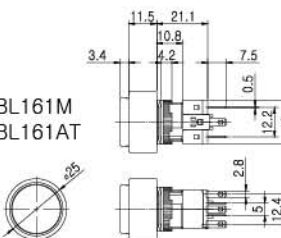
KBL160M  
KBL160AT



**KBL161**



KBL161M  
KBL161AT





## Technical Information

### Switching System

The switching element of KPB16 is equipped with normally open contact and normally closed contact.

1C and 2C contact available.

### Material

#### Contact

Silver alloy + Copper

#### Housing

BODY: Nylon glass

CONTACT HOUSING: PBT

#### Buttons

PC

### Mechanical Characteristics

#### Mechanical Lifetime

Momentary type: 1,000,000 Cycles of operation

Maintained type: 200,000 Cycles of operation

#### Install

Tightening torque : Max. 6Kg/F.Cm

### Electrical Characteristics

#### Standards

This product comply with “ Standards for low-voltage switching devices” EN IEC 60947-5-1

#### Contact Ratings

250VAC 3A (resistive load)

#### Insulation Resistance

Minimum 100M $\Omega$  (500VDC)

#### Contact Resistance

Maximum 30m $\Omega$

#### Electrical Lifetime

100,000 cycles of operation



## Electrical Characteristics—continues

### Dielectric Strength

Between Live Parts: 1,000VAC(50/60Hz) for 1 minute

Between Live and Dead Parts: 1,000VAC(50/60Hz) for 1 minute

## Environmental conditions

### Operational Temperature

-15° C~+55° C

### Operational Humidity

45~85%RH

### Protection Degree

IP40

### Shock Resistance

Approximately 10G(1,000m/s<sup>2</sup>)

### Vibration Resistance

10~55Hz double amplitude 1.5mm (at X, Y and Z axis)

## Approvals

### Approbations

UL, CCC, KC

### Declaration of Conformity

CE

CONTROL  
COMPONENTS

SQUARE  
LIGHT

TOWER  
LIGHT

MICRO  
SWITCH

FOOT  
SWITCH

LIMIT  
SWITCH

POWER  
SWITCH

HOIST  
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