

# K16 Series

Ø16mm Switches/Buttons




















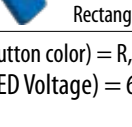
- 16mm (5/8") Mounting Holes
- IP 65 degree of protection (Water & dust proof)
- Snap action contacts
- Illuminated Mushroom & Round, square, rectangular heads (Selector switches are optional)
- Useful quick connector (tap #110) or available solder socket or PCB pin sockets
- Flush mountable switches available - see page F4

## Specifications

<b>Contacts</b>	Contact Form	SPDT (1NO + 1NC), DPDT (2NO + 2NC)
	Contact Material	Ag Alloy (24K Gold plated)
	Max. Switching Current	3A MAX
	Max. Rated Voltage	250VAC, 110VDC
	Rated Current	1A at 24VDC/ 120VAC, 0.5A at 250VAC
	Min. Switching Current	1mA 5VDC
<b>LED</b>	Rated Voltage	24VDC, 12VDC, 6VDC
	Rated Current	15mA
	Expected Life	50,000hrs
<b>Buzzer</b>	Sound	80dB continuous alert sound at 0.1m
	Voltage/Current	24VDC/15mA

<b>General Spec</b>	Contact Resistance	Max. 50mΩ	
	Insulation Resistance	100MΩ at 500V DC	
	Dielectric Strength	2,000VAC for 1 Min.	
	Vibration Resistance	5~55Hz Dual amplitude : 0.75mm	
	Shock Resistance	Endurance: 500m/s <sup>2</sup> , Operatin 200m/s <sup>2</sup>	
	Expected Life	Mechanical	Push Button (release): Min. 1,000,000
			Selector, Key Selector: 250,000
	Expected Life	Electrical	Others: Min. 100,000
			Maintained: Min. 50,000 (frequency 1,200 times/hrs)
	Expected Life	Electrical	Others: Min. 100,000
Ambient Temperature			Operation: -25°C~ +55°C, Storage: -30°C~+80°C
Ambient Humidity	45~85%RH		
Degree of Protection	IP65		
Terminal Soldering Temp.	20W 5sec / 260°C 3sec		

	Style	Operation	Contact	Part Numbers	
				Non Illuminated	Illuminated
Push Button		Momentary	SPDT DPDT	K16-211-① K16-212-①	K16-271-①-② K16-272-①-②
		Maintained	SPDT DPDT	K16-311-① K16-312-①	K16-371-①-② K16-372-①-②
		Momentary	SPDT DPDT	K16-221-① K16-222-①	K16-281-①-② K16-282-①-②
		Maintained	SPDT DPDT	K16-321-① K16-322-①	K16-381-①-② K16-382-①-②
		Momentary	SPDT DPDT	K16-231-① K16-232-①	K16-291-①-② K16-292-①-②
		Maintained	SPDT DPDT	K16-331-① K16-332-①	K16-391-①-② K16-392-①-②
Mushroom Switches		Momentary	SPDT DPDT	K16-911-① K16-912-①	K16-971-①-② K16-972-①-②
		Maintained	SPDT DPDT	K16-911H-① K16-912H-①	K16-971H-①-② K16-972H-①-②
		Momentary	SPDT DPDT	K16-921-① K16-922-①	K16-981-①-② K16-982-①-②
		Maintained	SPDT DPDT	K16-921H-① K16-922H-①	K16-981H-①-② K16-982H-①-②
		Momentary	SPDT DPDT	K16-931-① K16-932-①	K16-991-①-② K16-992-①-②
		Maintained	SPDT DPDT	K16-931H-① K16-932H-①	K16-991H-①-② K16-992H-①-②
E-Stop Switches		Turn to Release	SPDT DPDT	K16-811R K16-812R	K16-871-24VDC K16-872-24VDC
Buzzers		80dB	N/A	K16-CZ	K16-CZL
		80dB	N/A	K16-BZ	K16-BZL

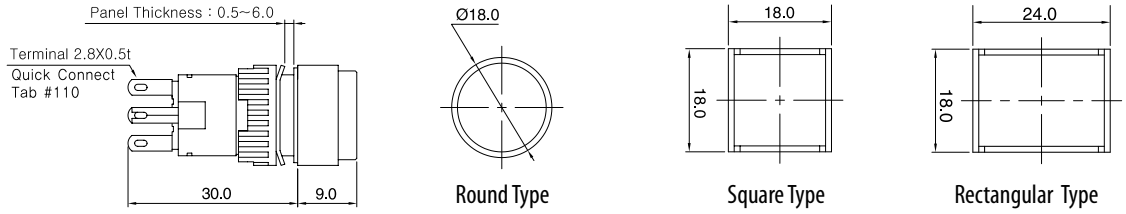
	Style	Operation	Contact	Part Numbers
Pilot Lamp		Pilot Lamp	N/A	K16-170-①-②V
		Pilot Lamp	N/A	K16-180-①-②V
		Pilot Lamp	N/A	K16-190-①-②V
Selector Switches		2 Step	SPDT DPDT	K16-411 K16-412
		3 Step	DPDT	K16-512
		2 Step	SPDT DPDT	K16-421 K16-422
		3 Step	DPDT	K16-522
		2 Step	SPDT DPDT	K16-431 K16-432
		3 Step	DPDT	K16-532
Key Selector Switches		2 Step	SPDT DPDT	⊗ K16-611 ⊙ K16-612
		3 Step	DPDT	⊕ K16-712
		2 Step	SPDT DPDT	⊗ K16-621 ⊙ K16-622
		3 Step	DPDT	⊕ K16-722
		2 Step	SPDT DPDT	⊗ K16-631 ⊙ K16-632
		3 Step	DPDT	⊕ K16-732

\* ① (Button color) = R, G, Y, B, and W (Red, Green, Yellow, Blue, and White)

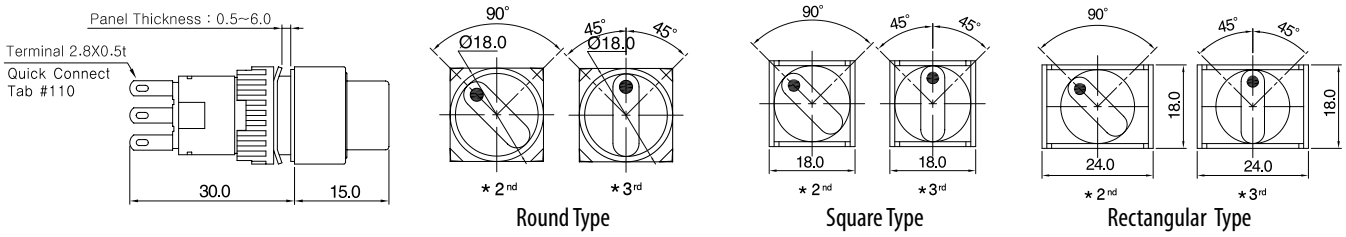
\* ② (LED Voltage) = 6VDC, 12VDC, 24VDC

# Dimensions

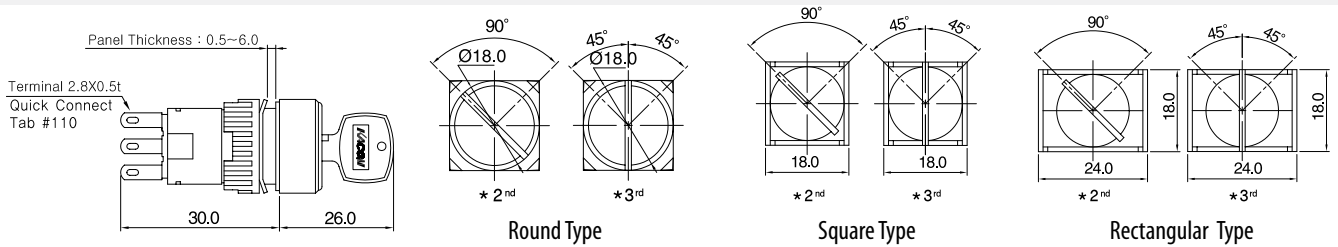
## Pilot Lamps & Push Buttons



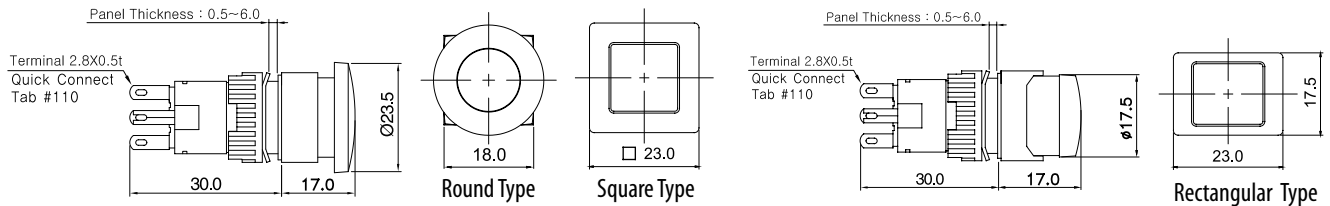
## Selector Switches



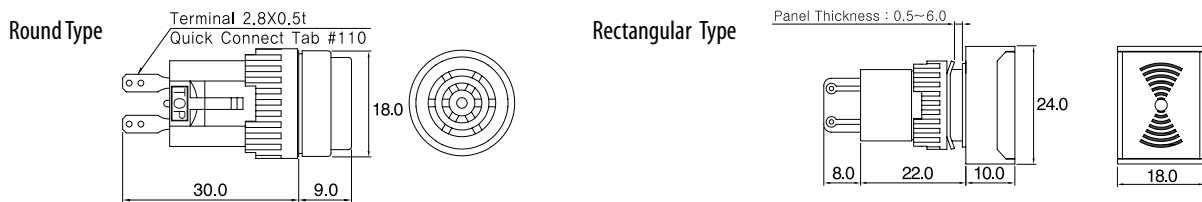
## Key Switches



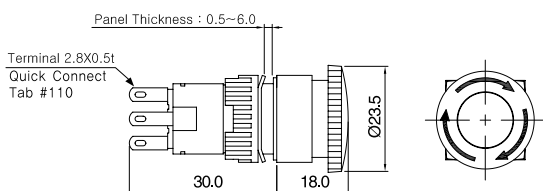
## Mushroom Type Push Buttons



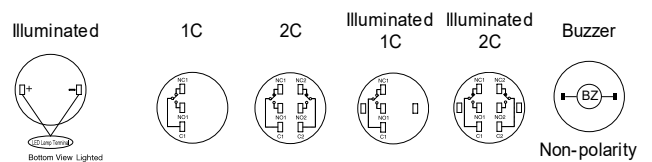
## Buzzers



## Emergency Resets

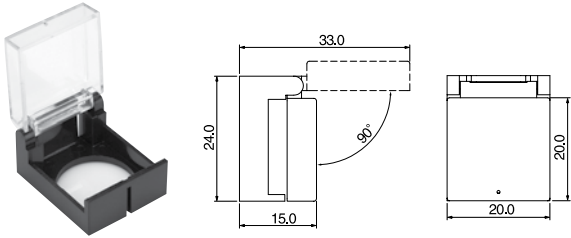


## Wiring Diagram



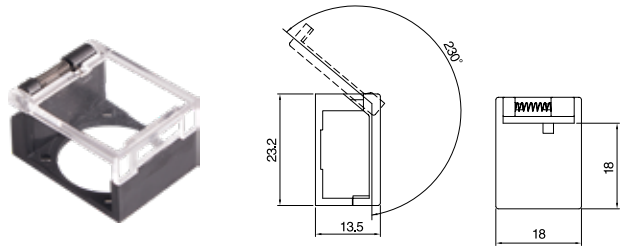
# K16 Accessories

## Protection Covers - Round & Square Type



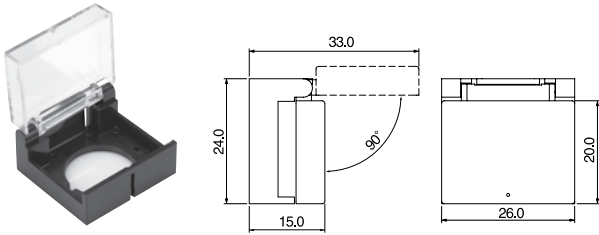
K16-S111 ① : Opens 90 degree

①- Blank: Black, R: Red, G: Green, Y: Yellow



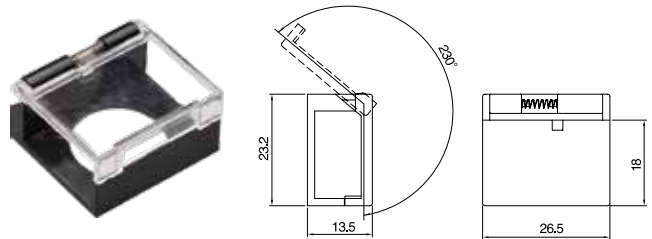
K16-S221 : Opens 230 degree

## Protection Covers - Rectangular Type



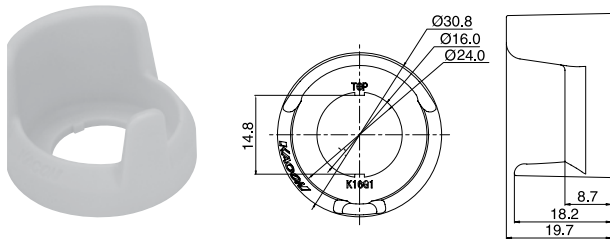
K16-S112 ① : Opens 90 degree

①- Blank: Black, R: Red, G: Green, Y: Yellow

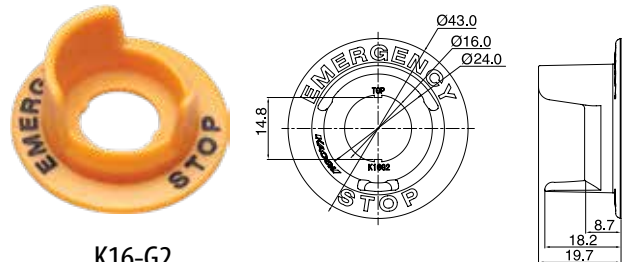


K16-S222 : Opens 230 degree

## Safety Guard



K16-G1



K16-G2

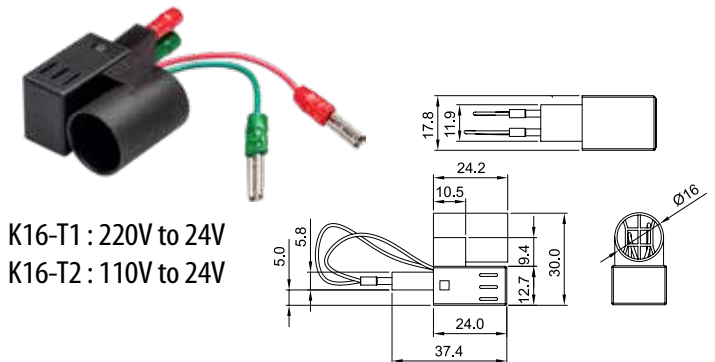
## LED

K16-S115①

① - R, Y, G, B, C & 6, 12, 24VDC

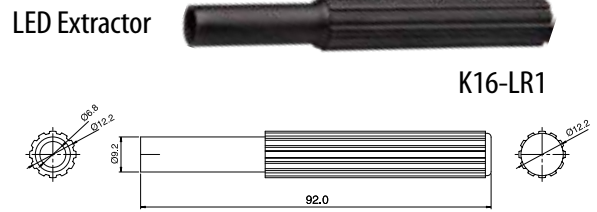
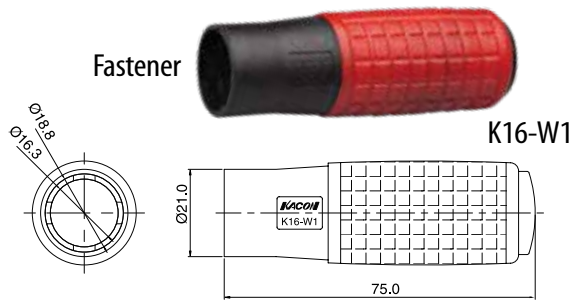


## Transformer

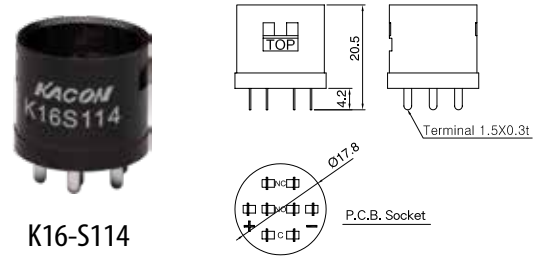
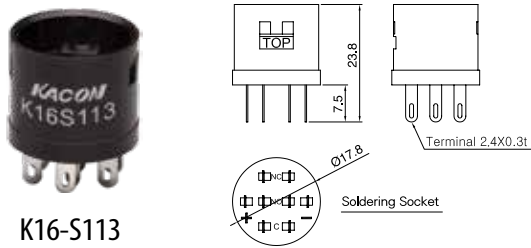


K16-T1 : 220V to 24V  
K16-T2 : 110V to 24V

## Hand Tools



## Sockets



## Terminal Protection



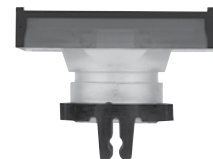
K16-S116

## Protection Cover



K16-S223

## R Type Lens



K16-S224

## Flush Mounting Guard



Switches shown with  
flush mounting guard