

Control Switch

K22 Series



Pilot Light

Non-Illuminated
Push Button Switch

Illuminated
Push Button Switch

Illuminated
Selector Switch



Non-Illuminated
Selector Switch

Key Switch

Illuminated
Emergency Stop Switch

Non-Illuminated
Emergency Stop Switch



Illuminated
Mushroom Push Button Switch

Non-Illuminated
Mushroom Push Button Switch

Illuminated
Full Guard

Non-Illuminated
Full Guard



Buzzer

Part Number Description

K - 1 2 3 4 5 6

1 Operator Type	22 : Ø22		
2 Bezel Type	1 : Pilot Light 4 : 2 Position Selector 6 : 2 Position Key BZ : Buzzer	2 : Momentary 5 : 3 Position Selector 7 : 3 Position Key	3 : Maintained 8 : Emergency Stop
3 Illumination & Shape	1 : Non-Illuminated Round 4 : Illumination Round 7 : Illumination Round(LED) A : Standard Operator Round C : Illumination Operator Round	2 : Non-Illuminated Rectangular 5 : Illumination Square 8 : Illumination Square(LED) B : Standard Operator Square D : Illumination Operator Square	6 : Illumination Rectangular (I/O) 9 : Illumination Rectangular (LED, I/O)
4 Color	R : Red B : Blue	G : Green K : Black	Y : Yellow W : White
5 Second Standard	RE : Non-Illuminated Extended N29 : Ø29 AL : AL Guard B65 : P-Full Guard Ø60 C29 : Metal Full Guard Ø29 S2R : 2 Position Auto Short Lever S3R : 3 Position Right Auto Short Lever L2R : 2 Position Auto Long Lever L3R : 3 Position Right Auto Long Lever RX : Pilot New Flat D : I/O	RF : Illuminated Pilot Flat N40 : Ø40 B29 : P-Full Guard Ø29 C40 : Metal Full Guard Ø40 S3LR : 3 Position Both Auto Short Lever L3LR : 3 Position Both Auto Long Lever L : Long Lever DR : Directions(Arrow) WELL : Well type	N65 : Ø65 B40 : P-Full Guard Ø40 C65 : Metal Full Guard Ø65 S3L : 3 Position Left Auto Short Lever L3L : 3 Position Left Auto Long Lever LI : Illuminated long lever indicator F : Flower (Emergency)
6 Rated Voltage	Switch None : No Voltage 110VAC	24VDC 220VAC	
	Buzzer 12/24VDC	90/240VAC	

☞ Aluminum guard type is available for Push buttons, Selector switches and key switches.

Example) AL guard type K22-21R --> K22-21R AL

AL guard type K22-24R 220VAC --> K22-24R 220VAC AL

☞ Emergency reset and mushroom head type (N40, N29...) model is not available for AL guard option.

☞ The special voltage (48VDC, 110VDC, 220VDC, 125VDC, 380VAC, 440VAC, 480VAC) is an order specification.

* LED working 50% less than the original brightness after 50000 hours.

Control Switch


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General Specification


Contact Ratings	Material		Ag alloy			
	Rated Current	Voltage	AC 12	AC 15	DC 12	DC13
		24V	10A	10A	6A	1.5A
		48V	10A	10A	3A	0.4A
		110V	10A	10A	2A	0.2A
		250V	6A	6A	1A	0.1A
		440V	2A	2A	-	-
	Life Cycles	Mechanical	Min. 200,000			
		Electrical	Min. 2,000,000 (Emergency, Selector : Min. 500,000)			
	Minimum Switching Current		10A			
Minimum Switching Voltage		440VAC				
Contact Resistance		50mΩ				
Illumination	Normal Current	AC	Filament	160mA		
			LED	15mA		
		DC	Filament	50mA		
			LED	15mA		
	Life Cycles	Filament	Min. 1,000hrs			
		LED	Min. 50,000hrs			
General Ratings	Dielectric Strength		1,800VAC for 1 minute			
	Degree of Protection		IP54	RF(Push Button), Selector : IP40		
	Insulation Resistance		100MΩ min.(at 500VDC)			
	Frequency of Alteration		30 / 1 Minute			
	Ambient Temperature		-25°C ~ + 70°C (with no icing)			
	Torque		0.8N·m (8.16kgf·m)			
Buzzer	Size		Ø22mm : K22-BZ	Ø25mm : K25-BZ		
	Supply Voltage		90VAC ~ 240VAC	12VDC ~ 24VDC		
	Power Consumption		Max. 5W			
	Maximum Output		Max. 1W			
	Sound Levels		80dB(Phon) 1m			
	Degree of Protection		IP40			
	Sound Type		continuous	interrupted		
	Tightening Torque		0.8N·m (8.16kgf·cm)			

☞ Specifications and materials can be changed without prior notice for the enhancement of the quality.


Product Selection

Operator Type	Panel Cutting Hole	Shape	Contact Form	Color	Part Number	Rated Voltage	
Illuminated LED Pilot Light + "BA9S" Filament 	∅22	Round	-	Red	K22-14R	24VDC 110VAC 220VAC	
				Green	K22-14G		
				Blue	K22-14B		
				Yellow	K22-14Y		
				White	K22-14W		
		Round Flat	-		Red	K22-14R RF	24VDC 110VAC 220VAC
					Green	K22-14G RF	
					Blue	K22-14B RF	
					Yellow	K22-14Y RF	
					White	K22-14W RF	
		Round New Flat	-		Red	K22-14R RX	24VDC 110VAC 220VAC
					Green	K22-14G RX	
					Blue	K22-14B RX	
					Yellow	K22-14Y RX	
					White	K22-14W RX	
		Square	-		Red	K22-15R	24VDC 110VAC 220VAC
					Green	K22-15G	
					Blue	K22-15B	
					Yellow	K22-15Y	
					White	K22-15W	
Square Directions (Arrow)	-		Red	K22-15R DR	24VDC 110VAC 220VAC		
			Green	K22-15G DR			
			Blue	K22-15B DR			
			Yellow	K22-15Y DR			
			White	K22-15W DR			

Product Selection

Operator Type	Panel Cutting Hole	Shape	Contact Form	Color	Part Number	Rated Voltage	
Illuminated LED Pilot Light + "BA9S-K" LED 	Ø22	Round	-	Red	K22-17R	24VDC 110VAC 220VAC	
				Green	K22-17G		
				Blue	K22-17B		
				Yellow	K22-17Y		
				White	K22-17W		
		Round Flat	-		Red	K22-17R RF	24VDC 110VAC 220VAC
					Green	K22-17G RF	
					Blue	K22-17B RF	
					Yellow	K22-17Y RF	
					White	K22-17W RF	
		Round New Flat	-		Red	K22-17R RX	24VDC 110VAC 220VAC
					Green	K22-17G RX	
					Blue	K22-17B RX	
					Yellow	K22-17Y RX	
					White	K22-17W RX	
		Square	-		Red	K22-18R	24VDC 110VAC 220VAC
					Green	K22-18G	
					Blue	K22-18B	
					Yellow	K22-18Y	
					White	K22-18W	
Square Directions (Arrow)	-		Red	K22-18R DR	24VDC 110VAC 220VAC		
			Green	K22-18G DR			
			Blue	K22-18B DR			
			Yellow	K22-18Y DR			
			White	K22-18W DR			


Product Selection

Operator Type	Panel Cutting Hole	Shape	Contact Form	Color	Part Number	Rated Voltage
Momentary Non-Illuminated Push Button Switch 	Ø22	Round	1N/O	Red	K22-21R	-
				Green	K22-21G	
				Blue	K22-21B	
				Yellow	K22-21Y	
				White	K22-21W	
				Black	K22-21K	
		Square	1N/O	Red	K22-22R	-
				Green	K22-22G	
				Blue	K22-22B	
				Yellow	K22-22Y	
				White	K22-22W	
				Black	K22-22K	
		Square Directions (Arrow)	1N/O	Red	K22-22R DR	-
				Green	K22-22G DR	
				Blue	K22-22B DR	
Yellow	K22-22Y DR					
				White	K22-22W DR	


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Operator Type	Panel Cutting Hole	Shape	Contact Form	Color	Part Number	Rated Voltage
Momentary Illuminated Push Button Switch + "BA9S" Filament 	Ø22	Round	1N/O	Red	K22-24R	24VDC 110VAC 220VAC
				Green	K22-24G	
				Blue	K22-24B	
				Yellow	K22-24Y	
				White	K22-24W	
		Round Flat	1N/O	Red	K22-24R RF	24VDC 110VAC 220VAC
				Green	K22-24G RF	
				Blue	K22-24B RF	
				Yellow	K22-24Y RF	
				White	K22-24W RF	
		Square	1N/O	Red	K22-25R	24VDC 110VAC 220VAC
				Green	K22-25G	
				Blue	K22-25B	
				Yellow	K22-25Y	
		Square Directions (Arrow)	1N/O	Red	K22-25R DR	24VDC 110VAC 220VAC
				Green	K22-25G DR	
Blue	K22-25B DR					
Yellow	K22-25Y DR					
				White	K22-25W DR	




Product Selection

Operator Type	Panel Cutting Hole	Shape	Contact Form	Color	Part Number	Rated Voltage
Momentary Illuminated Push Button Switch + "BA9S-K" LED 	Ø22	Round	1N/O	Red	K22-27R	24VDC 110VAC 220VAC
				Green	K22-27G	
				Blue	K22-27B	
				Yellow	K22-27Y	
				White	K22-27W	
		Round Flat	1N/O	Red	K22-27R RF	24VDC 110VAC 220VAC
				Green	K22-27G RF	
				Blue	K22-27B RF	
				Yellow	K22-27Y RF	
				White	K22-27W RF	
		Square	1N/O	Red	K22-28R	24VDC 110VAC 220VAC
				Green	K22-28G	
				Blue	K22-28B	
				Yellow	K22-28Y	
		Square Directions (Arrow)	1N/O	Red	K22-28R DR	24VDC 110VAC 220VAC
				Green	K22-28G DR	
Blue	K22-28B DR					
Yellow	K22-28Y DR					
				White	K22-28W DR	


Control Switch

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Product Selection

Operator Type	Panel Cutting Hole	Shape	Contact Form	Color	Part Number	Rated Voltage
Push-Selector 	Ø22	Round	1N/O + 1N/C	Black Gray	K22-21S K22-21SG	24VDC 110VAC 220VAC
Illuminated I/O Switch + "BA9S" Filament 	Ø22	Rectangular	1N/O + 1N/C		K22-26D	24VDC 110VAC 220VAC
Illuminated I/O Switch + "BA9S+KY" LED 	Ø22	Rectangular	1N/O + 1N/C		K22-29D	24VDC 110VAC 220VAC








Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Selector Type	Operator Function	Part Number	Rated Voltage
Non-Illuminated Selector Switch (2 Position)	Ø22 Round	Knob Type	1N/O	Black	Maintained		K22-41K	-
				Red			K22-41R	
				Green			K22-41G	
				Yellow			K22-41Y	
				Blue			K22-41B	
		Lever Type	1N/O	Maintained	90°	Black	K22-41K-S2R	
						Red	K22-41R-S2R	
						Green	K22-41G-S2R	
						Yellow	K22-41B-S2R	
						Blue	K22-41Y-S2R	
	Ø22 Square	Knob Type	1N/O	Maintained	90°	Black	K22-42K	-
						Red	K22-42R	
						Green	K22-42G	
						Yellow	K22-42Y	
						Blue	K22-42B	
		Lever Type	1N/O	Maintained	90°	Black	K22-42K-S2R	
						Red	K22-42R-S2R	
						Green	K22-42G-S2R	
						Yellow	K22-42Y-S2R	
						Blue	K22-42B-S2R	
Ø22 Square	Knob Type	1N/O	Spring Return	90°	Black	K22-41K-L	-	
					Red	K22-41R-L		
					Green	K22-41G-L		
					Yellow	K22-41Y-L		
					Blue	K22-41B-L		
	Lever Type	1N/O	Spring Return	90°	Black	K22-41K-L2R		
					Red	K22-41R-L2R		
					Green	K22-41G-L2R		
					Yellow	K22-41Y-L2R		
					Blue	K22-41B-L2R		
Ø22 Square	Knob Type	1N/O	Spring Return	90°	Black	K22-42K-L	-	
					Red	K22-42R-L		
					Green	K22-42G-L		
					Yellow	K22-42Y-L		
					Blue	K22-42B-L		
	Lever Type	1N/O	Spring Return	90°	Black	K22-42K-L2R		
					Red	K22-42R-L2R		
					Green	K22-42G-L2R		
					Yellow	K22-42Y-L2R		
					Blue	K22-42B-L2R		

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Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Selector Type	Operator Function	Part Number	Rated Voltage
Illuminated Selector Switch (2 Position) + "BA7S" Filament 	Ø22 Round	Knob Type	1N/O	Red	Maintained		K22-44R	24VDC 110VAC 220VAC
				Green			K22-44G	
				Yellow			K22-44Y	
				Blue	K22-44B			
				Red	Spring Return		K22-44R-S2R	24VDC 110VAC 220VAC
				Green			K22-44G-S2R	
	Yellow	K22-44Y-S2R						
	Blue	K22-44B-S2R						
	Ø22 Square	Knob Type	1N/O	Red	Maintained		K22-45R	24VDC 110VAC 220VAC
				Green			K22-45G	
				Yellow			K22-45Y	
				Blue	K22-45B			
Red				Spring Return		K22-45R-S2R	24VDC 110VAC 220VAC	
Green						K22-45G-S2R		
Yellow	K22-45Y-S2R							
Blue	K22-45B-S2R							
Illuminated Selector Switch (2 Position) + "BA7S - K" LED 	Ø22 Round	Knob Type	1N/O	Red	Maintained		K22-47R	24VDC 110VAC 220VAC
				Green			K22-47G	
				Yellow			K22-47Y	
				Blue	K22-47B			
				Red	Spring Return		K22-47R-S2R	24VDC 110VAC 220VAC
				Green			K22-47G-S2R	
	Yellow	K22-47Y-S2R						
	Blue	K22-47B-S2R						
	Ø22 Square	Knob Type	1N/O	Red	Maintained		K22-48R	24VDC 110VAC 220VAC
				Green			K22-48G	
				Yellow			K22-48Y	
				Blue	K22-48B			
Red				Spring Return		K22-48R-S2R	24VDC 110VAC 220VAC	
Green						K22-48G-S2R		
Yellow	K22-48Y-S2R							
Blue	K22-48B-S2R							










Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Selector Type	Operator Function	Part Number	Rated Voltage
Non-Illuminated Selector Switch (3 Position)	Ø22 Round	Knob Type	2N/O	Black	Maintained		K22-51K	-
				Red			K22-51R	
				Green			K22-51G	
				Yellow			K22-51Y	
				Blue			K22-51B	
				Black	Left Auto		K22-51K-S3L	
				Red			K22-51R-S3L	
				Green			K22-51G-S3L	
				Yellow			K22-51Y-S3L	
				Blue			K22-51B-S3L	
				Black	Right Auto		K22-51K-S3R	
				Red			K22-51R-S3R	
		Green	K22-51G-S3R					
		Yellow	K22-51Y-S3R					
		Blue	K22-51B-S3R					
		Black	Both Auto		K22-51K-S3LR			
		Red			K22-51R-S3LR			
		Green			K22-51G-S3LR			
		Yellow			K22-51Y-S3LR			
		Blue			K22-51B-S3LR			
		Black	Maintained		K22-51K-L			
		Red			K22-51R-L			
		Green			K22-51G-L			
		Yellow			K22-51Y-L			
Blue	K22-51B-L							
Black	Left Auto		K22-51K-L3L					
Red			K22-51R-L3L					
Green			K22-51G-L3L					
Yellow			K22-51Y-L3L					
Blue			K22-51B-L3L					
Black	Right Auto		K22-51K-L3R					
Red			K22-51R-L3R					
Green			K22-51G-L3R					
Yellow			K22-51Y-L3R					
Blue			K22-51B-L3R					
Black	Both Auto		K22-51K-L3LR					
Red			K22-51R-L3LR					
Green			K22-51G-L3LR					
Yellow			K22-51Y-L3LR					
Blue			K22-51B-L3LR					
Lever Type	2N/O	Lever Type	2N/O	Black	Maintained		K22-51K-L	-
				Red			K22-51R-L	
				Green			K22-51G-L	
				Yellow			K22-51Y-L	
				Blue			K22-51B-L	
				Black	Left Auto		K22-51K-L3L	
				Red			K22-51R-L3L	
				Green			K22-51G-L3L	
				Yellow			K22-51Y-L3L	
				Blue			K22-51B-L3L	
				Black	Right Auto		K22-51K-L3R	
				Red			K22-51R-L3R	
Green	K22-51G-L3R							
Yellow	K22-51Y-L3R							
Blue	K22-51B-L3R							
Black	Both Auto		K22-51K-L3LR					
Red			K22-51R-L3LR					
Green			K22-51G-L3LR					
Yellow			K22-51Y-L3LR					
Blue			K22-51B-L3LR					










Control Switch

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Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Selector Type	Operator Function	Part Number	Rated Voltage		
Non-Illuminated Selector Switch (3 Position) 	Ø22 Square	Knob Type	2N/O	Black	Maintained		K22-52K	-		
				Red			K22-52R			
				Green			K22-52G			
				Yellow			K22-52Y			
				Blue			K22-52B			
				Black	Left Auto		K22-52K-S3L			
				Red			K22-52R-S3L			
				Green			K22-52G-S3L			
				Yellow			K22-52Y-S3L			
				Blue			K22-52B-S3L			
				Black	Right Auto		K22-52K-S3R			
				Red			K22-52R-S3R			
		Green	K22-52G-S3R							
		Yellow	K22-52Y-S3R							
		Blue	K22-52B-S3R							
		Black	Both Auto		K22-51K-S3LR					
		Red			K22-51R-S3LR					
		Green			K22-51G-S3LR					
		Yellow			K22-51Y-S3LR					
		Blue			K22-51B-S3LR					
		Lever Type	2N/O	Knob Type	2N/O	Black	Maintained		K22-52K-L	-
						Red			K22-52R-L	
						Green			K22-52G-L	
						Yellow			K22-52Y-L	
Blue	K22-52B-L									
Black	Left Auto						K22-52K-L3L			
Red				K22-52R-L3L						
Green				K22-52G-L3L						
Yellow				K22-52Y-L3L						
Blue				K22-52B-L3L						
Black	Right Auto				K22-52K-L3R					
Red					K22-52R-L3R					
Green		K22-52G-L3R								
Yellow		K22-52Y-L3R								
Blue		K22-52B-L3R								
Black	Both Auto		K22-51K-L3LR							
Red			K22-51R-L3LR							
Green			K22-51G-L3LR							
Yellow			K22-51Y-L3LR							
Blue			K22-51B-L3LR							

Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Selector Type	Operator Function	Part Number	Rated Voltage
Illuminated Selector Switch (3 Position) + "BA7S" Filament 	Ø22 Round			Red	Maintained		K22-54R	24VDC 110VAC 220VAC
				Green			K22-54G	
				Yellow			K22-54Y	
				Blue			K22-54B	
				White			K22-54W	
				Red	Left Auto		K22-54R-S3L	24VDC 110VAC 220VAC
				Green			K22-54G-S3L	
				Yellow			K22-54Y-S3L	
				Blue			K22-54B-S3L	
				Blue			K22-54W-S3L	
	Red	Right Auto		K22-54R-S3R	24VDC 110VAC 220VAC			
	Green			K22-54G-S3R				
	Yellow			K22-54Y-S3R				
	Blue			K22-54B-S3R				
	Blue			K22-54W-S3R				
	Red	Both Auto		K22-54R-S3LR	24VDC 110VAC 220VAC			
	Green			K22-54G-S3LR				
	Yellow			K22-54Y-S3LR				
	Blue			K22-54B-S3LR				
	Blue			K22-54W-S3LR				
Ø22 Square				Red	Maintained		K22-55R	24VDC 110VAC 220VAC
				Green			K22-55G	
				Yellow			K22-55Y	
				Blue			K22-55B	
				Blue			K22-55W	
				Red	Left Auto		K22-55R-S3L	24VDC 110VAC 220VAC
				Green			K22-55G-S3L	
				Yellow			K22-55Y-S3L	
				Blue			K22-55B-S3L	
				Blue			K22-55W-S3L	
	Red	Right Auto		K22-55R-S3R	24VDC 110VAC 220VAC			
	Green			K22-55G-S3R				
	Yellow			K22-55Y-S3R				
	Blue			K22-55B-S3R				
	Blue			K22-55W-S3R				
	Red	Both Auto		K22-55R-S3LR	24VDC 110VAC 220VAC			
	Green			K22-55G-S3LR				
	Yellow			K22-55Y-S3LR				
	Blue			K22-55B-S3LR				
	Blue			K22-55W-S3LR				

Control Switch








K22 Series

Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Selector Type	Operator Function	Part Number	Rated Voltage
Illuminated Selector Switch (3 Position) + "BA7S - K" LED	Ø22 Round			Red	Maintained		K22-57R	24VDC 110VAC 220VAC
				Green			K22-57G	
				Yellow			K22-57Y	
				Blue			K22-57B	
				Blue			K22-57W	
				Red	Left Auto		K22-57R-S3L	24VDC 110VAC 220VAC
				Green			K22-57G-S3L	
				Yellow			K22-57Y-S3L	
				Blue			K22-57B-S3L	
				Blue			K22-57W-S3L	
	Red	Right Auto		K22-57R-S3R	24VDC 110VAC 220VAC			
	Green			K22-57G-S3R				
	Yellow			K22-57Y-S3R				
	Blue			K22-57B-S3R				
	Blue			K22-57W-S3R				
	Red	Both Auto		K22-57R-S3LR	24VDC 110VAC 220VAC			
	Green			K22-57G-S3LR				
	Yellow			K22-57Y-S3LR				
	Blue			K22-57B-S3LR				
	Blue			K22-57W-S3LR				
	Ø22 Square			Red	Maintained		K22-58R	24VDC 110VAC 220VAC
				Green			K22-58G	
				Yellow			K22-58Y	
				Blue			K22-58B	
				Blue			K22-58W	
				Red	Left Auto		K22-58R-S3L	24VDC 110VAC 220VAC
				Green			K22-58G-S3L	
				Yellow			K22-58Y-S3L	
				Blue			K22-58B-S3L	
				Blue			K22-58W-S3L	
	Red	Right Auto		K22-58R-S3R	24VDC 110VAC 220VAC			
	Green			K22-58G-S3R				
	Yellow			K22-58Y-S3R				
	Blue			K22-58B-S3R				
	Blue			K22-58W-S3R				
	Red	Both Auto		K22-58R-S3LR	24VDC 110VAC 220VAC			
	Green			K22-58G-S3LR				
	Yellow			K22-58Y-S3LR				
	Blue			K22-58B-S3LR				
	Blue			K22-58W-S3LR				







Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Operator Function	Part Number	Rated Voltage	
Non-Illuminated Key Switch (2 Position)		Ø22	Round	1N/O	Black		K22-61K	-
Non-Illuminated Key Switch (3 Position)		Ø22	Round	2N/O	Black		K22-71K	-
Non-Illuminated Ø40 Emergency Stop		Ø22	Round	1N/C	Red	K22-81R	-	
Illuminated Ø40 Emergency Stop + "BA9S" Filament		Ø22	Round	1N/C	Red	K22-84R	24VDC	
							110VAC	
							220VAC	
Illuminated Ø40 Emergency Stop + "BA9S+K" LED		Ø22	Round	1N/C	Red	K22-87R	24VDC	
							110VAC	
							220VAC	

Control Switch

K22,25,30 Series

Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Part Number	Rated Voltage
Non-Illuminated Ø45 Flower Head Emergency Stop 	Ø22	Round	1N/C	Red	K22-81F	-
Non-Illuminated Ø40 Mushroom Emergency Stop 	Ø22	Round	1N/C	Red	K22-81R-N40	-
Illuminated Ø40 Mushroom Emergency Stop + "BA9S" Filament 	Ø22	Round	1N/C	Red	K22-84R-N40	24VDC 110VAC 220VAC
Illuminated Ø40 Mushroom Emergency Stop + "BA9S+K" LED 	Ø22	Round	1N/C	Red	K22-87R-N40	24VDC 110VAC 220VAC

Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Part Number	Rated Voltage
Non-Illuminated Ø29 Emergency Stop						
	Ø22	Round	1N/C	Red	K22-81R-N29	-
				Green	K22-81G-N29	
Illuminated Ø29 Emergency Stop + "BA9S" Filament						
	Ø22	Round	1N/C	Red	K22-84R-N29	24VDC 110VAC 220VAC
				Green	K22-84G-N29	
Illuminated Ø29 Emergency Stop + "BA9S + K" LED						
	Ø22	Round	1N/C	Red	K22-87R-N29	24VDC 110VAC 220VAC
				Green	K22-87G-N29	

Control Switch

K22 Series

Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Part Number	Rated Voltage
Non-Illuminated Ø29 Mushroom Push Button Switch						
	Ø22	Round	1N/C	Red	K22-21R-N29	-
				Green	K22-21G-N29	
				Yellow	K22-21Y-N29	
Illuminated Ø29 Mushroom Push Button Switch + "BA9S" Filament						
	Ø22	Round	1N/C	Red	K22-24R-N29	24VDC 110VAC 220VAC
				Green	K22-24G-N29	
				Yellow	K22-24Y-N29	
Illuminated Ø29 Mushroom Push Button Switch + "BA9S + K" LED						
	Ø22	Round	1N/C	Red	K22-27R-N29	24VDC 110VAC 220VAC
				Green	K22-27G-N29	
				Yellow	K22-27Y-N29	




Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Part Number	Rated Voltage
Non-Illuminated Ø40 Mushroom Push Button Switch	Ø22	Round	1N/C	Red	K22-21R-N40	-
				Green	K22-21G-N40	
				Yellow	K22-21Y-N40	
Illuminated Ø40 Mushroom Push Button Switch + "BA9S" Filament	Ø22	Round	1N/C	Red	K22-24R-N40	24VDC 110VAC 220VAC
				Green	K22-24G-N40	
				Yellow	K22-24Y-N40	
Illuminated Ø40 Mushroom Push Button Switch + "BA9S + K" LED	Ø22	Round	1N/C	Red	K22-27R-N40	24VDC 110VAC 220VAC
				Green	K22-27G-N40	
				Yellow	K22-27Y-N40	

Control Switch

K22 Series

Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Part Number	Rated Voltage
Non-Illuminated Ø65 Mushroom Push Button Switch						
	Ø22	Round	1N/C	Red	K22-21R-N65	-
				Green	K22-21G-N65	
Illuminated Ø65 Mushroom Push Button Switch + "BA9S" Filament						
	Ø22	Round	1N/C	Red	K22-24R-N65	24VDC 110VAC 220VAC
				Green	K22-24G-N65	
Illuminated Ø65 Mushroom Push Button Switch + "BA9S + K" LED						
	Ø22	Round	1N/C	Red	K22-27R-N65	24VDC 110VAC 220VAC
				Green	K22-27G-N65	



Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Part Number	Rated Voltage
Non-Illuminated Ø29 Metal Full Guard 	Ø22	Round	1N/C	Red	K22-21R-C29	-
				Green	K22-21G-C29	
				Yellow	K22-21Y-C29	
Illuminated Ø29 Metal Full Guard + "BA9S" Filament 	Ø22	Round	1N/C	Red	K22-24R-C29	24VDC 110VAC 220VAC
				Green	K22-24G-C29	
				Yellow	K22-24Y-C29	
Illuminated Ø29 Metal Full Guard + "BA9S + K" LED 	Ø22	Round	1N/C	Red	K22-27R-C29	24VDC 110VAC 220VAC
				Green	K22-27G-C29	
				Yellow	K22-27Y-C29	

Control Switch

K22 Series

Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Part Number	Rated Voltage
Non-Illuminated Ø40 Metal Full Guard						
	Ø22	Round	1N/C	Red	K22-21R-C40	-
				Green	K22-21G-C40	
				Yellow	K22-21Y-C40	
Illuminated Ø40 Metal Full Guard + "BA9S" Filament						
	Ø22	Round	1N/C	Red	K22-24R-C40	24VDC 110VAC 220VAC
				Green	K22-24G-C40	
				Yellow	K22-24Y-C40	
Illuminated Ø40 Metal Full Guard + "BA9S + K" LED						
	Ø22	Round	1N/C	Red	K22-27R-C40	24VDC 110VAC 220VAC
				Green	K22-27G-C40	
				Yellow	K22-27Y-C40	




Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Part Number	Rated Voltage
Non-Illuminated Ø40 P-full Guard						
	Ø22	Round	1N/C	Red	K22-21R-B40	-
				Green	K22-21G-B40	
				Yellow	K22-21Y-B40	
Illuminated Ø40 P-full Guard + "BA9S" Filament						
	Ø22	Round	1N/C	Red	K22-24R-B40	24VDC 110VAC 220VAC
				Green	K22-24G-B40	
				Yellow	K22-24Y-B40	
Illuminated Ø40 P-full Guard + "BA9S + K" LED						
	Ø22	Round	1N/C	Red	K22-27R-B40	24VDC 110VAC 220VAC
				Green	K22-27G-B40	
				Yellow	K22-27Y-B40	










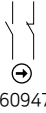

Control Switch


K22 Series

Product Selection

Operator Type	Shape	Head Type	Contact Form	Color	Part Number	Rated Voltage
Non-Illuminated Ø65 P-full Guard						
	Ø22	Round	1N/C	Red	K22-21R-B65	-
				Green	K22-21G-B65	
Illuminated Ø65 P-full Guard + "BA9S" Filament						
	Ø22	Round	1N/C	Red	K22-24R-B65	24VDC 110VAC 220VAC
				Green	K22-24G-B65	
Illuminated Ø65 P-full Guard + "BA9S + K" LED						
	Ø22	Round	1N/C	Red	K22-27R-B65	24VDC 110VAC 220VAC
				Green	K22-27G-B65	
Illuminated Buzzer						
	Ø22	Rectangle	-	-	K22-BZ	90VAC ~ 240VAC 12VDC ~ 24VDC

Accessory

	Operator Type	Shape	Color	Rated Voltage	Part number
		1NO	-	-	CBA
	 ※ IEC60947-5-1 Positive opening type	1NC	-	-	CBB
		2NO	-	-	CBA2
	 ※ IEC60947-5-1 Positive opening type	2NC	-	-	CBB2
	 ※ IEC60947-5-1 Positive opening type	1NO + 1NC	-	-	CBC
	Maintain Holder	-	-	-	KAL

	Type	Color	Rated Voltage	Part number	Applicable item	Applied voltage
	Filament	-	6.3VDC	BA7S	Illuminated Selector	220VAC
			24VDC			24VDC
	LED	Ⓐ	6.3VDC	BA9S-KⒶ	Exclude Illuminated Selector	110VAC, 220VAC
			24VDC			24VDC, 48VDC, 110VDC, 220VDC, 380VAC
LED	Ⓐ	6.3VDC	BA7S-KⒶ	Illuminated Selector	220VAC	
		24VDC			24VDC	
LED	Ⓐ	6.3VDC	BA9S-KⒶ	Exclude Illuminated Selector	110VAC, 220VAC	
		24VDC			24VDC, 48VDC, 110VDC, 220VDC, 380VAC	

※ Ⓐ - Color : R(Red) / G(Green) / Y(Yellow) / B(Blue) / K*(Black) / W(White)



Control Switch

K22 Series

Accessory

	Operator Type	Size (WxDxH)	Mounting Size	Color	Part number
	Round waterproof cover For Ø40 full guard	Ø50.2x26.3	-	-	HP100
	Dust Proof, oil proof, waterproof cover For Ø65 Ø80 x 35	Ø80x35	-	Ⓐ (Rubber NBR)	HP120
	Round Waterproof Cover for Ø25	Ø31x16.5	-	-	RCR
	Square Waterproof Cover	31x31x16.5	-	-	RCS
	Protection Cover	65x81x39	Ø22	Yellow Red Green Amber White	KEG12 □
	Protection Cover	Ø55x74x37.5	Ø22	Yellow Red Green White Blue Black Clear	KEG32 □
	Protection Cover (Exclude EPB/MPB)	Ø49.5x69x32 (except EPB/MPB)	Ø22	Cover : C (Clear) Bottom : C (Clear)	KEG42
	Protection Cover	30.2X35.3X18.7	Ø22	-	SC2
	Protection Cover	KSC12 Ø35.4X 30.9 KSC15 Ø35.4X 30.9 KSC13 Ø39.6X 30.4	Ø22	-	KSC12







Accessory

	Operator Type		Mounting Size	Color	Part number
	Name Plate	30X40.5X6.3	Ø22	-	HP110A
	Name Plate	Ø60 t=2.6mm	Ø22	Product : Yellow Letter : Black	HP111A
		Ø75 t=2.8mm	Ø22	Product : Yellow Letter : Black	HP112A
	Name Plate	Ø70 t=1mm H=10mm	Ø22	Yellow	HP117A
		Ø80 t=1mm H=10mm	Ø22	Yellow	HP118A
	Name Plate	62 x 48.5 t=0.2mm	Ø22 official use	Product : Yellow Letter : Black	HP119E
				Product : Yellow Letter : Red	HP119E-R
				Product : White Letter : Black	HP119E-W(STOP)
				Product : White Letter : Red	HP119E-W(STOP-R)
	Name Plate	62 x 48.5 t=0.2mm	Ø22 official use	Product : Yellow Letter : Black	HP119E(OFF)
				Product : Yellow Letter : Red	HP119E(OFF-R)
				Product : White Letter : Black	HP119E-W(OFF)
				Product : White Letter : Red	HP119E-W(OFF-R)
	Name Plate	Ø62 t=0.2mm	Ø22 official use	Product : Yellow Letter : Black	HP119E-1(STOP)
				Product : White Letter : Black	HP119E-1W(STOP)
				Product : Yellow Letter : Red	HP119E-1(STOP-R)
	Name Plate	Ø62 t=0.2mm	Ø22 official use	Product : Yellow Letter : Black	HP119E-1(OFF)
				Product : Yellow Letter : Red	HP119E-1(OFF-R)
				Product : White Letter : Black	HP119E-1W(OFF)









Control Switch

K22 Series

Accessory

	Operator Type	Size (W×D×H)	Color	Mounting Size	Part number
	Terminal cover with hole		Clear		KP-10
	Terminal cover without hole		Clear		KP-11
	Trans cover with hole		Clear		KP-20
	Trans cover without hole		Clear		KP-21
	Terminal cover with hole (for CBA2, CBB2, CBC)		Clear		KP-30
	Terminal cover without hole (for CBA2, CBB2, CBC)		Clear		KP-31

Accessory

	Operator Type	Size (W×D×H)	Color	Mounting Size	Part number
	Flush mounting Safety Guard	Ø99 H40.8	Yellow	Ø22	KEG72
	Flush mounting Safety Guard	Ø99 H40.8	White	Ø22	KEG72W
	Safety Guard	Ø90 H39.1	Yellow	Ø22	KEG82
	Safety Guard	Ø90 H39.1	White	Ø22	KEG82W
	AL Safety Guard	Ø90 H38.8	Yellow	Ø22	KEG92
	AL Safety Guard	Ø90 H38.8	White	Ø22	KEG92W
	Illuminated Safety Guard ※ Refer to II - II - 46p for circuit configuration related matters. please	Ø90 H43.1	Yellow	Ø22	KEG82YL-Δ
	Box ※ Non-Illuminated, Available up to 1a+1b		Yellow	Ø22	KEX-101Y

※ Δ - Circuit type: N(NPN), P(PNP)

※ HP119 name panel is also suitable with KEG7,8,9 series

- Example of usage







Control Switch

K22 Series

Accessory

Operator Type	Size (W×D×H)	Color	Part Number
	 76.5X65X43 Ø22	Yellow	KEG-12C
Full Cover Guard	 Ø99 H45 Ø22	Yellow	KEG-72C
	 Ø90 H43 Ø22	Yellow	KEG-82C

※ CAUTION: If the support of the redundant protective guard is not cut, the emergency stop switch cannot be pressed.

Operator Type	Color	Part Number	Applicable		
			KEG-1□C	KEG-7□C / KEG-8□C	
Accessory for Full Cover Guard	 (Ø61.5X 45.5 t=0.2mm)	Product : Yellow Letter : Black	HP-1CE	○	-
	 (Ø61.5X 45.5 t=0.2mm)	Product : Yellow Letter : Red	HP-1CE-R	○	-
	 (Ø77.6 t=0.2mm)	Product : Yellow Letter : Black	HP-7CE	-	○
	 (Ø77.6 t=0.2mm)	Product : Yellow Letter : Red	HP-7CE-R	-	○

※ Full Cover Guard Example of usage

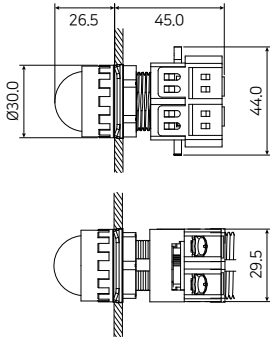


KEG-1□C + KEX-101Y 「Combined Switch Box and Full Cover Guard」
 KEG-1□C KEG-7□C KEG-8□C

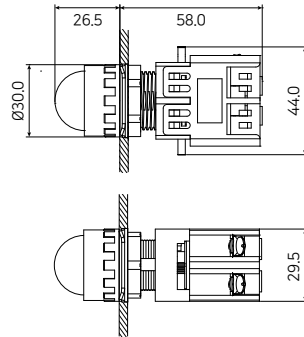
Dimension (K22 - Body)

Unit : mm

DC Pilot Light

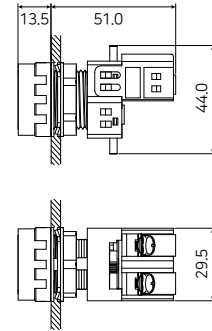


AC Pilot Light



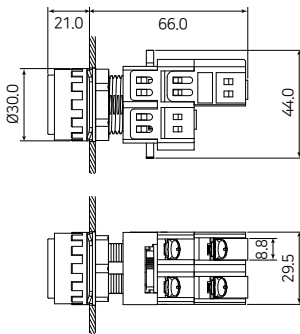
Non-Illuminated Switch

(Momentary Push Button, Selector, Emergency Stop, Mushroom Push button, Key)



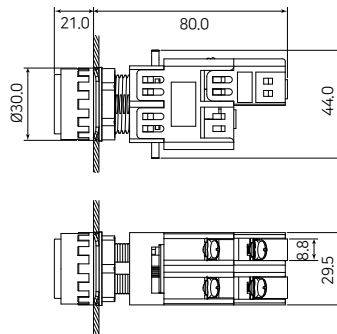
DC Illuminated Switch

(Push, Selector, Emergency Stop, Mushroom Push button, Full Guard)

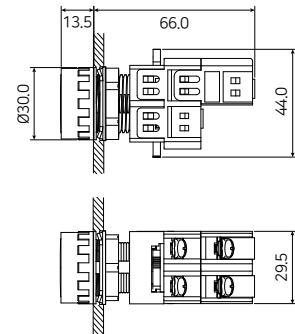


AC Illuminated Switch

(Push, Selector, Emergency Stop, Mushroom Push button, Full Guard)



Non-Illuminated Push Button Switch



Control Switch

K22 Series

Dimension (K22 - Head)

Unit : mm

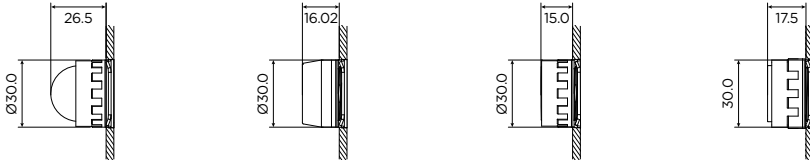
Pilot Light(AC/DC)

Round

RX

RF

Square

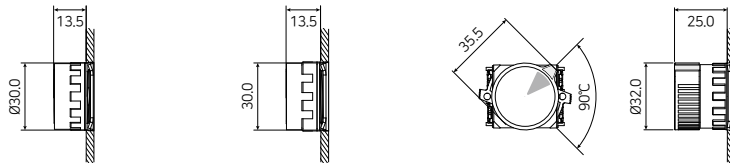


Non-Illuminated Push Button(Momentary/Maintained)

Round

Square

Push Selector



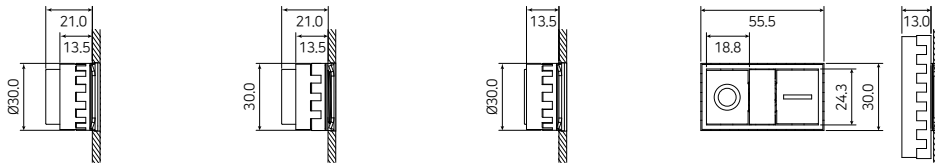
Illuminated Push Button (AC/DC)

Round

Square

RF

I/O



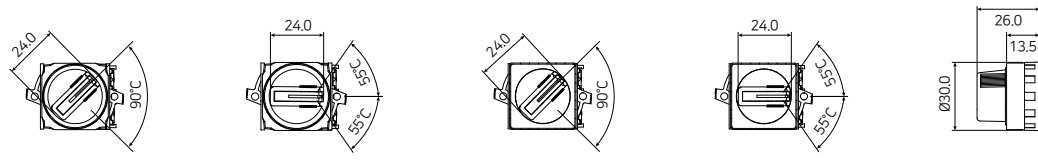
Non-Illuminated Knob Type Selector

2 Position Round

3 Position Round

2 Position Square

3 Position Square



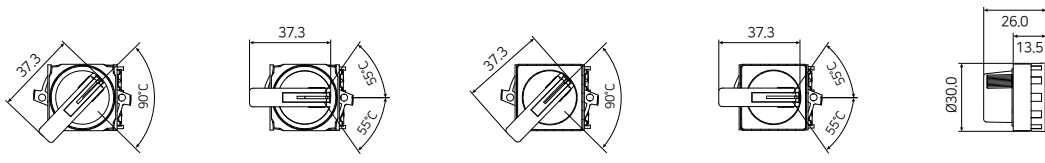
Non-Illuminated Lever Type Selector

2 Position Round

3 Position Round

2 Position Square

3 Position Square



Dimension (K22 - Head)

Unit : mm

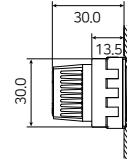
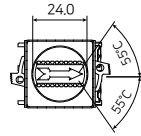
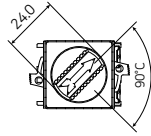
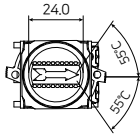
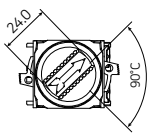
Illuminated Knob Type Selector (AC/DC)

2 Position Round

3 Position Round

2 Position Square

3 Position Square

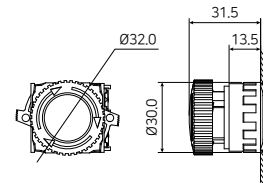
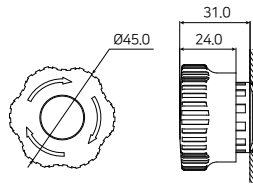
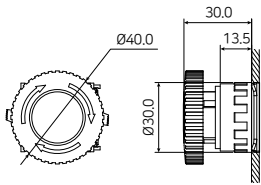


Emergency Stop

Ø40

Ø45

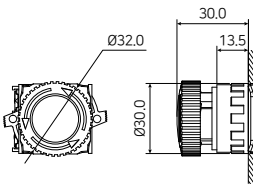
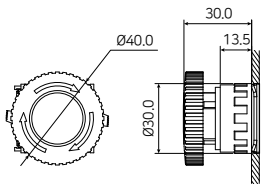
Ø29



Illuminated Emergency Stop (AC/DC)

Ø40

Ø29

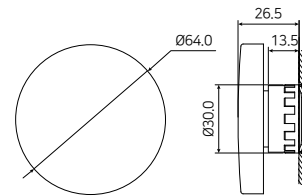
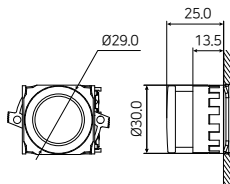
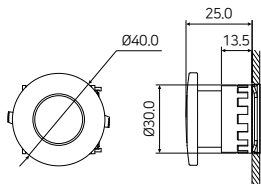


Mushroom Push Button

Ø40

Ø29

Ø65

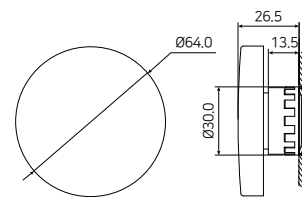
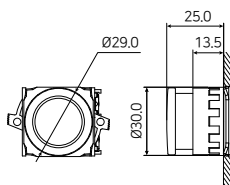
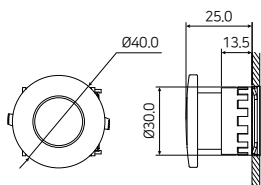


Illuminated Mushroom Push Button (AC/DC)

Ø40

Ø29

Ø65



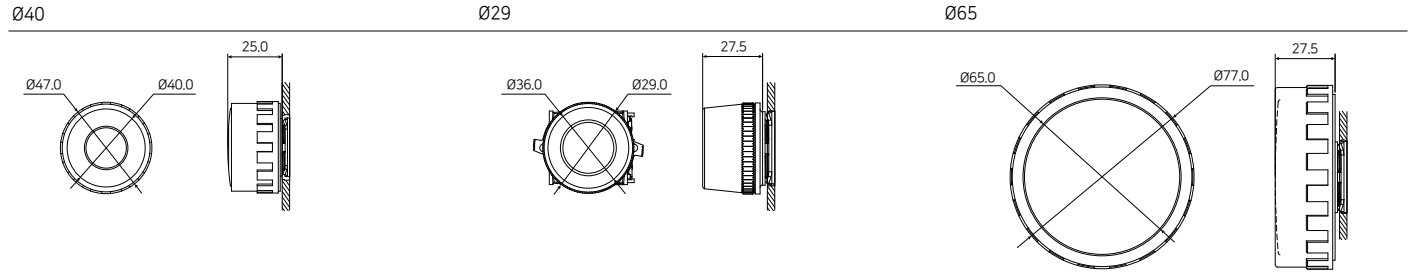
Control Switch

K22 Series

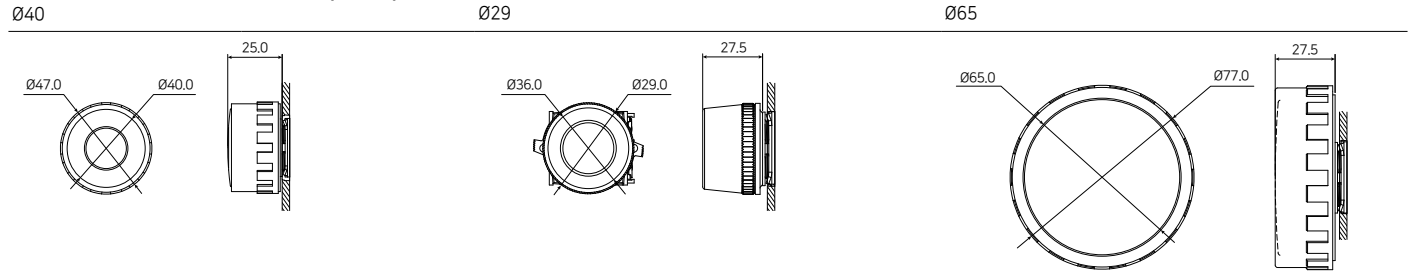
Dimension (K22 - Head)

Unit : mm

Full Guard Push Button

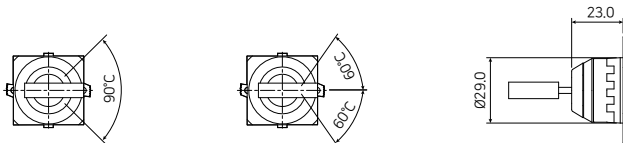


Illuminated Full Guard Push Button (AC/DC)



Key

2 Position 3 Position

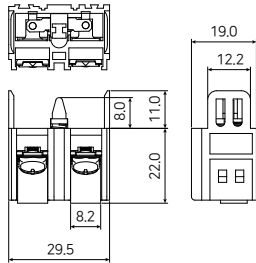


Accessory

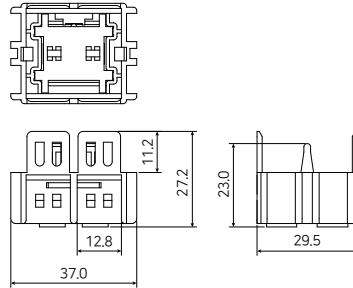
Unit : mm

Contact

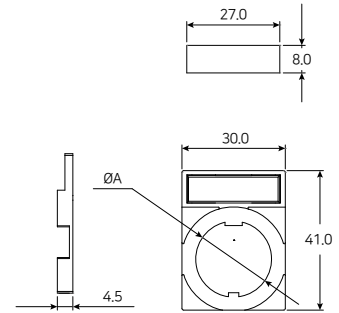
CBA / CBB



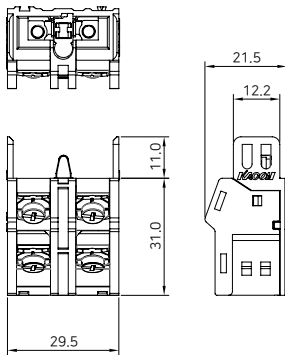
Maintain Holder



Name Plate

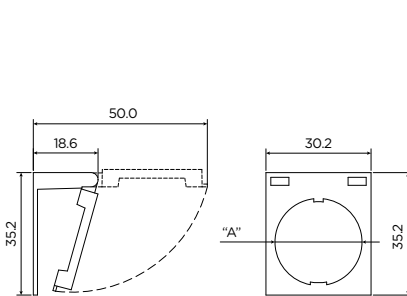


CBA2 / CBB2 / CBC

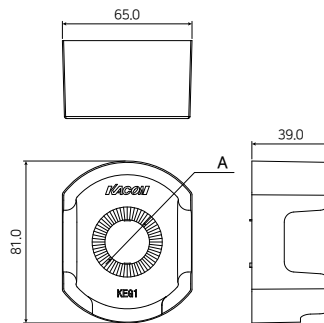


A	HP110A Ø22
	HP110A Ø25

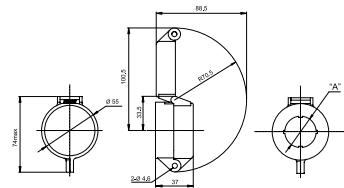
Protection Cover



Model	"A"
SC2	Ø22
SC5	Ø25



Model	KEG12 K22	KEG15 K25	KEG13 K30
A	Ø22	Ø25	Ø30



Model	"A"
KEG32	Ø22
KEG35	Ø25
KEG33	Ø30

Rev. 2/14

Data subject may change without notice.

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Industrial Controls Catalog

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KACON

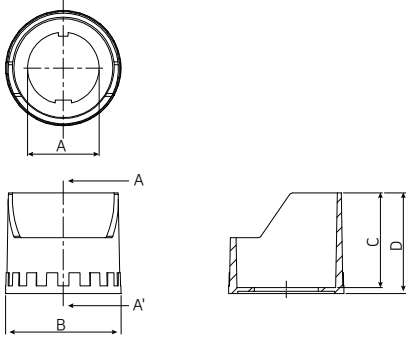
Control Switch

K22 Series

Accessory

Unit : mm

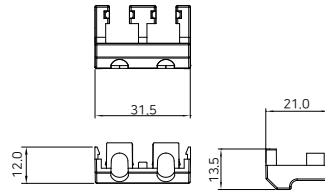
Protection Cover



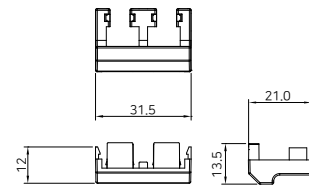
model	KSC12	KSC15	KSC13
A	Ø22	Ø25.1	Ø30.2
B	Ø35.4	Ø35.4	Ø39.6
C	29	29	28.3
D	30.9	30.9	30.4

Terminal Cover

KP-10

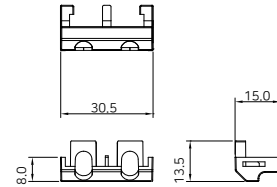


KP-11

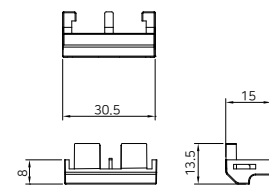


Power Terminal Cover

KP-20

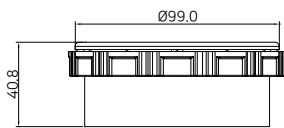


KP-21

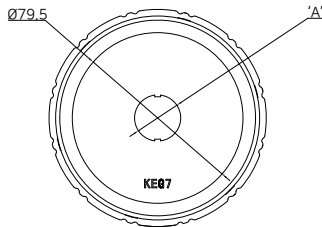


Safety Guard

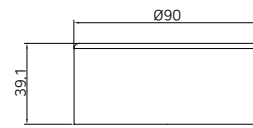
KEG 7 Series



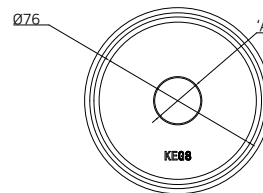
Model	'A'
KEG72	Ø22



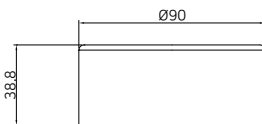
KEG 8 Series



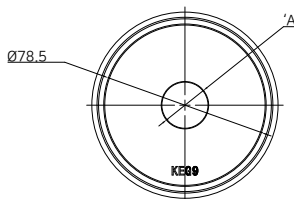
Model	'A'
KEG82	Ø22



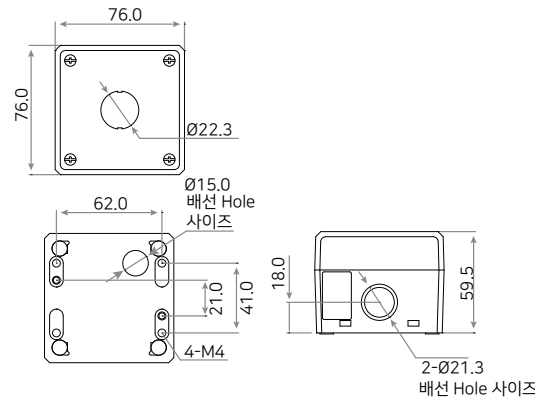
KEG 9 Series



Model	'A'
KEG92	Ø22



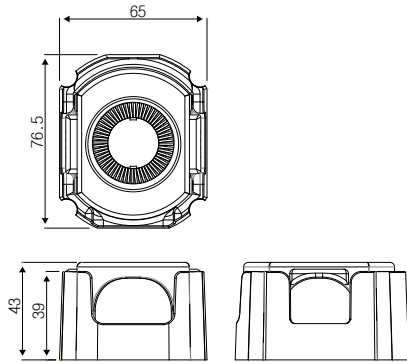
KEX-101Y



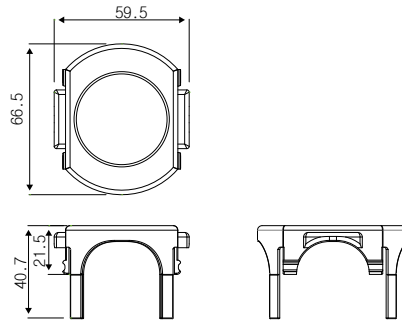
Dimension

Unit : mm

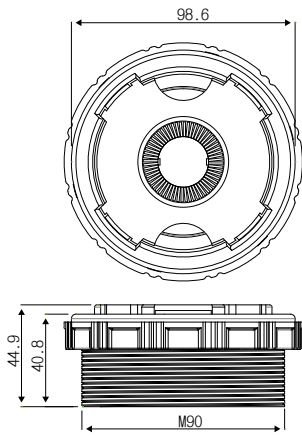
KEG-1□C



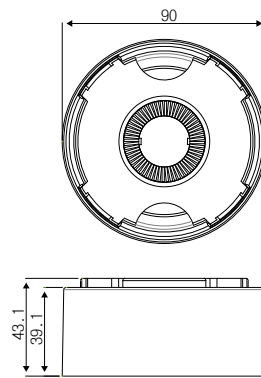
KEG-1SC



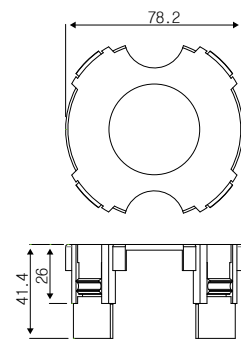
KEG-7□C



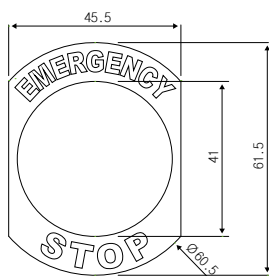
KEG-8□C



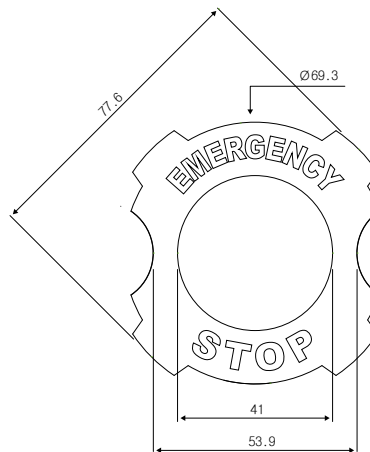
KEG-7SC



HP-1CE Series



HP-7CE Series

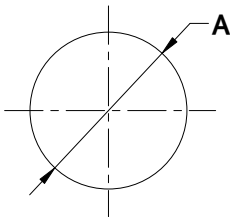


Control Switch

K22 Series

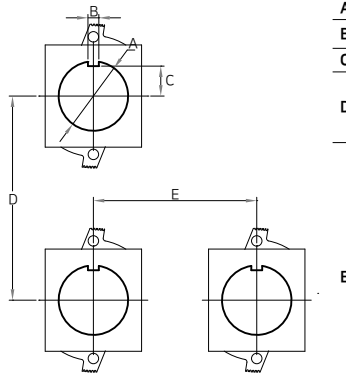
Panel Cut-Out / Mounting Dimension

Panel Cut-Out



※ Panel Thickness 0.5~5.0 mm

Panel Mounting Dimension

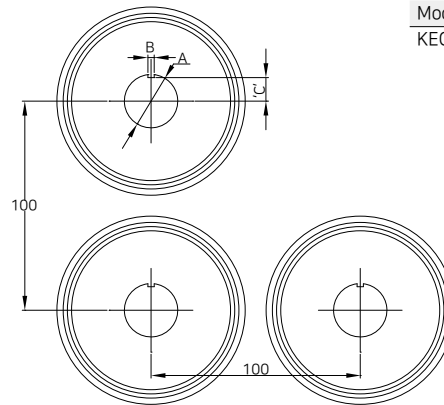
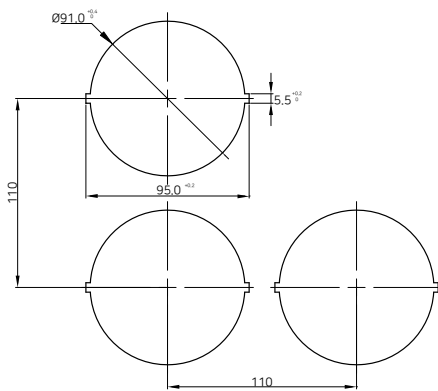


Space Dimension

		Ø22
A		Ø22.5(±0.2)
B		3 ^{+0.0} _{-0.5}
C		10±0.2
D	Switch	Min. 60
	Ø65 Mushroom	Min. 70
	Ø65 Full Guard	Min. 85
	Round	Min. 40
	Square	Min. 40
	Ø29 Mushroom	Min. 40
	Ø40 Mushroom(Reset)	Min. 45
	Ø65 Mushroom(Reset)	Min. 70
	Ø29 Full Guard	Min. 40
	Ø40 Full Guard	Min. 60
Selector	Min. 40	
Long Lever Selector	Min. 50	

KEG7 Series

KEG8, KEG9 Series



Model	'A'	'B'	'C'
KEG82, 92	Ø22.5	3	19.5

Key, Selector contact form drawing (basic contact)

2 Position

Contact	Terminal code	Left	Right
1a1b	NO		●
	NC	●	
2a	NO		●
	NO		●
2b	NC	●	
	NC	●	
2a2b	NO		●
	NC	●	
	NO		●
	NC	●	

3 Position

Contact	Terminal code	Left	Middle	Right
1a1b	NO			●
	NC		●	●
2a	NO			●
	NO	●		
2b	NC	●	●	
	NC		●	●
2a2b	NO			●
	NC		●	●
	NO			●
	NC		●	●

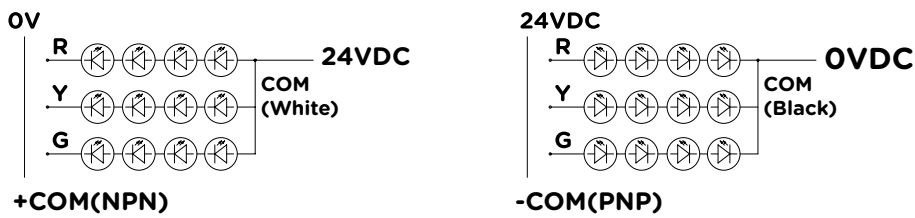
KEG8□YL-△ Circuit composition

	Wiring system	com	LED Group 1	LED Group 2	LED Group 3
color	+com	White (W)	Red(R)	Yellow(Y)	Green(G)
	-com	Black(K)	Red(R)	Yellow(Y)	Green(G)

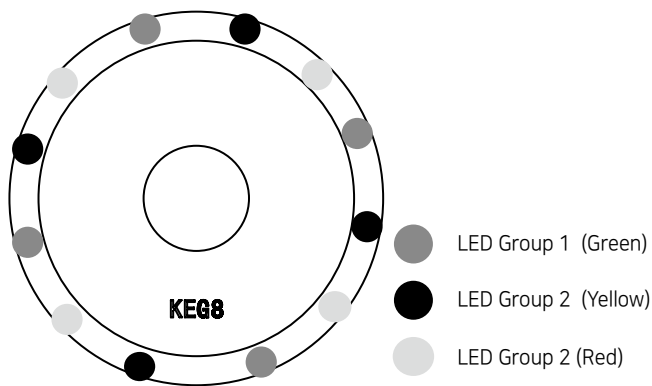
※ □ - Ø : 2(Ø22)

△ - Wiring system : N(NPN), P(PNP)

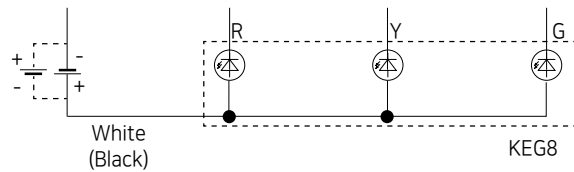
KEG8□YL-△ LED Circuit composition



KEG8□YL-△ LED Group layout circuit composition



KEG8□YL-△ Circuit wiring example



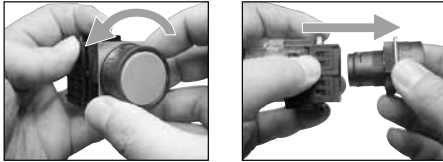
Control Switch

K22 Series

Pre-Caution

K series is a separable unit that consists of operating, trans and contact units.
The operating unit, which is separated from the transformer unit, is mounted on the panel, and then the trans unit is mounted and wiring is easily conducted.

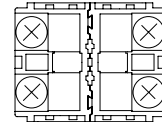
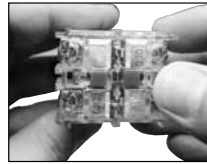
Separate the operating unit from the trans unit after push the separation lever, mount the operating unit on the panel first, and then attach the trans and contact units.



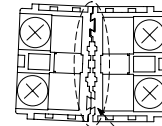
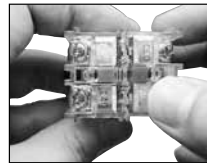
Be sure to push the separation lever before separating the operating unit from the trans unit.

Excessive force may damage the product.

When adding additional contacts, check if the connection is firm.
Poor connection may lead to operation errors and contact separation.



(O)



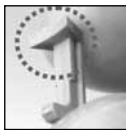
(X)

All K series operating units have anti-rotation fixtures. Attach the fixing ring and anti-rotation fixture close to each other to prevent the rotation of the operating unit and the loosening of the fixing ring.

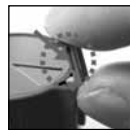


K22-21S (Push-selector switch) Direction indicator pin replacement

● Inserting the direction indicator pin



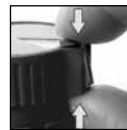
① Hold the pin with its flat surface upward.



② The lateral projection of the pin engages with the projection in the knob.



③ Push the pin in the arrow direction with a 20° inclination.



④ Press the pin with a finger until the click sound is heard.



⑤ The direction indicator pin is fully inserted.

● Removing the direction indicator pin



① Insert a driver or awl vertically at the arrowed point.



② Erect the tool in the arrowed direction to separate the pin.



③ The direction indicator pin is replaced with another one in different color.

● Diverse colors for the direction indicator pins



Direction indicator pins come in four colors to ensure high-quality design. Yellow, blue, orange, and white

Finger Touch cover mounted as standard

