

Control Switch

H Series



Pilot Light



Illuminated
Push Button Switch



Illuminated
Push Button Switch
(Snap Action)



Push Button Switch



Selector Switch



Key Switch



Emergency Reset



Emergency Reset
(Waterproof)



Ø45 Emergency Reset



Ø45 Emergency Reset
(Waterproof)

Part Number Description

H	-	1	2	3	4	5
1 Operator Type	1 : Pilot Light	2 : Momentary	4 : 2 Position Selector	5 : 3 Position Selector		
	6 : 2 Position Key	7 : 3 Position Key	8 : Emergency Stop			
2 Illumination & Shape	1 : Pilot Light	7 : Illumination Round (LED)				
3 Color	R : Red	G : Green	Y : Yellow			
	B : Blue	W : White				
4 Operating Head Type	N40 : Ø40	B40 : full guard Ø40				
	A : Waterproof Reset Switch (Only Emergency)	L : Latching Reset Switch (Only Emergency)	F : Flower (Only Emergency)			
5 Rated Voltage	24VDC	110VDC	110VAC	220VAC		

General Specification

Contact	Material			Ag Allow		
	Normal Current	voltage		AC1	AC3	DC1
		24V		10A	10A	10A
		48V		10A	10A	3A
		110V		10A	5A	1A
		250V		10A	3A	0.6A
		440V		3A	1.5A	-
	Expected Life	Electrical		Min. 100,000		
		Mechanical		Emergency, Selector, Key, : Min 100,000 / Other Min. 1,000,000		
	Contact Resistance			50mΩ		
LED	Current Voltage	AC	LED	approx. 15mA		
		DC	LED	approx. 15mA		
	Voltage		24VDC			
	Expected Life		Min. 50,000hrs			
General Spec	Insulation Resistance		Min. 100MΩ (500VDC)			
	Dielectric strength		2,000VAC/1 Min.			
	Frequency of Alteration		30 times / 1 Min.			
	Degree of Protection		IP65			
	Ambient Temperature		-25°C ~ 70°C (With no icing)			
	Torque		0.8N·m (8.16kgf·cm)			

Note) The operating voltage is 110 V DC~125 V DC for 110 V DC for the indicator lamp and illuminated push-button. The brightness of the LED lamp may decrease to 50 % of the initial level after the operation of 50,000 h.

Control Switch

H Series

Product Selection

Operator Type	Panel Cutting Hole	Contact Form	Color	Part Number	Rated Voltage
Momentary Non-Illuminated Push Button Switch 	Ø25	1N/O + 1N/C	Red	H25-21R	-
			Green	H25-21G	
			Blue	H25-21B	
			Yellow	H25-21Y	
			White	H25-21W	
	Ø30	1N/O + 1N/C	Red	H30-21R	-
			Green	H30-21G	
			Blue	H30-21B	
			Yellow	H30-21Y	
			White	H30-21W	
Illuminated LED Pilot Lamp "BA9S + L" LED 	Ø25	-	Red	H25-17R	24VDC 110VDC 110VAC 220VAC
			Green	H25-17G	
			Blue	H25-17B	
			Yellow	H25-17Y	
			White	H25-17W	
	Ø30	-	Red	H30-17R	24VDC 110VDC 110VAC 220VAC
			Green	H30-17G	
			Blue	H30-17B	
			Yellow	H30-17Y	
			White	H30-17W	
Momentary Illuminated LED Push Button Switch "BA9S + L" LED 	Ø25	1N/O + 1N/C	Red	H25-27R	24VDC 110VDC 110VAC 220VAC
			Green	H25-27G	
			Blue	H25-27B	
			Yellow	H25-27Y	
			White	H25-27W	
	Ø30	1N/O + 1N/C	Red	H30-27R	24VDC 110VDC 110VAC 220VAC
			Green	H30-27G	
			Blue	H30-27B	
			Yellow	H30-27Y	
			White	H30-27W	
Illuminated LED Push Button Switch (Snap Action) "BA9S + L" LED 	Ø25	1N/O + 1N/C	Red	H25-275R	24VDC 110VDC 110VAC 220VAC
			Green	H25-275G	
			Blue	H25-275B	
			Yellow	H25-275Y	
	Ø30	1N/O + 1N/C	Red	H30-275R	24VDC 110VDC 110VAC 220VAC
			Green	H30-275G	
			Blue	H30-275B	
			Yellow	H30-275Y	

Product Selection

Operator Type	Panel Cutting Hole	Contact Form	Color	Operating Head Type	Part Number	Rated Voltage
Non-Illuminated Knob Type Selector 	Ø25	1N/O + 1N/C	-	2 Position	H25-41S	-
				3 Position	H25-51S	-
	Ø30	1N/O + 1N/C	-	2 Position	H30-41S	-
				3 Position	H30-51S	-
Non-Illuminated Lever Type Selector 	Ø25	1N/O + 1N/C	-	2 Position	H25-41L	-
				3 Position	H25-51L	-
	Ø30	1N/O + 1N/C	-	2 Position	H30-41L	-
				3 Position	H30-51L	-
Non-Illuminated Key Switch 	Ø25	1N/O + 1N/C	-	2 Position	H25-61K	-
				3 Position	H25-71K	-
	Ø30	1N/O + 1N/C	-	2 Position	H30-61K	-
				3 Position	H30-71K	-
Non-Illuminated Emergency Stop Switch 	Ø25	1N/O + 1N/C	Red	-	H25-81R	-
	Ø30	1N/O + 1N/C	Red	-	H30-81R	-
Non-Illuminated Waterproof Emergency Stop Switch 	Ø25	1N/O + 1N/C	Red	-	H25-81A	-
		2N/O + 2N/C				
	Ø30	1N/O + 1N/C	Red	-	H30-81A	-
		2N/O + 2N/C				
Ø45 Non-Illuminated Emergency Stop Switch 	Ø25	1N/O + 1N/C	Red	-	H25-81F	-
	Ø30	1N/O + 1N/C	Red	-	H30-81F	-
Ø45 Non-Illuminated Waterproof Emergency Stop Switch 	Ø25	1N/O + 1N/C	Red	-	H25-81AF	-
	Ø30	1N/O + 1N/C	REd	-	H30-81AF	-

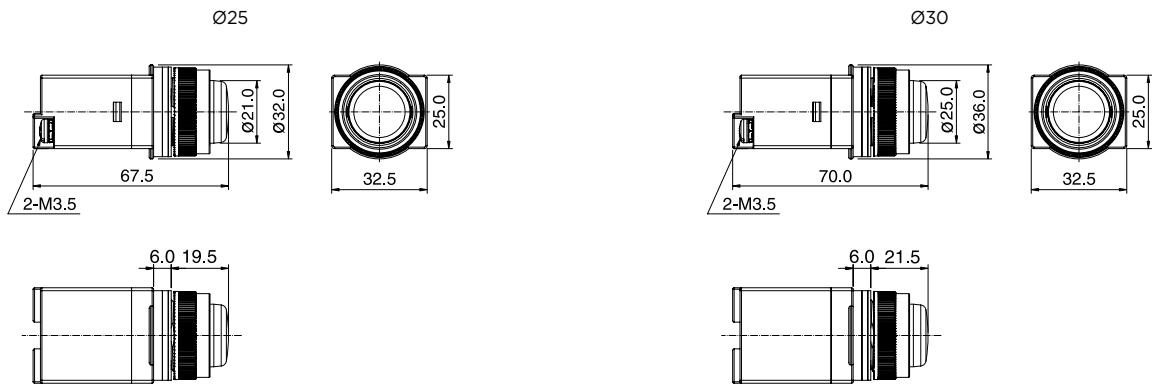
Control Switch

H Series

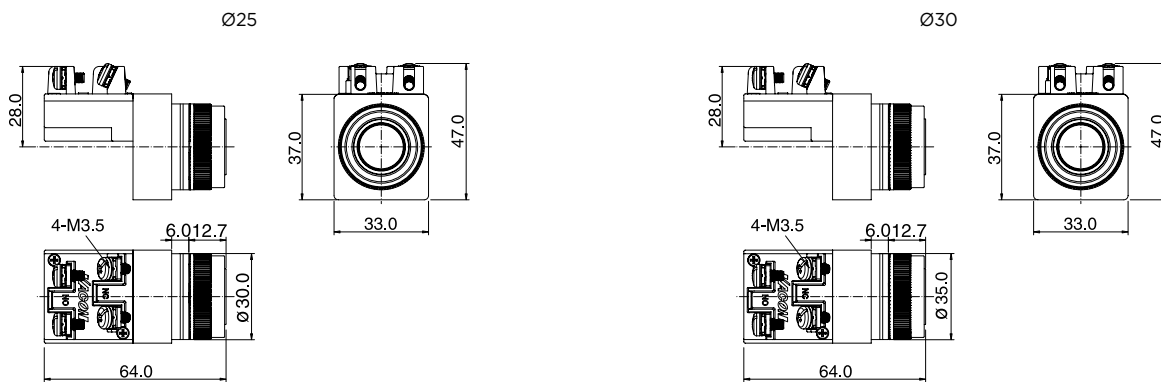
Dimension

Unit : mm

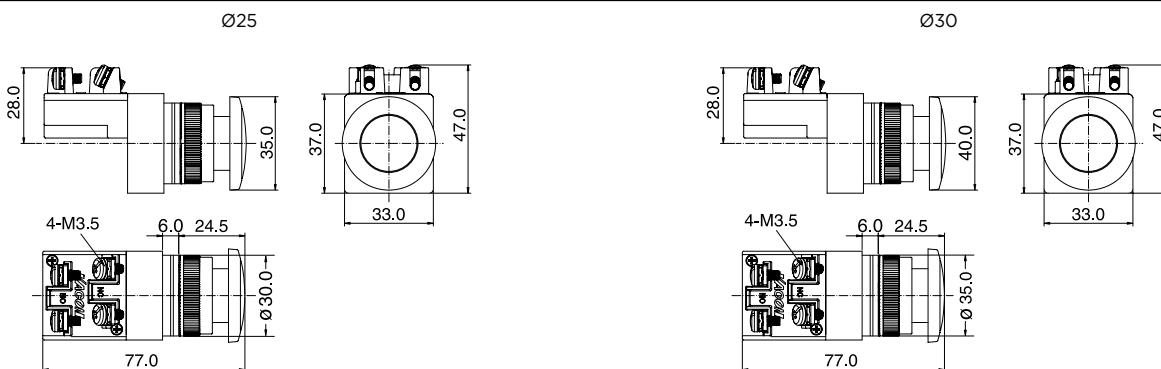
Pilot Light



Push Button Switch



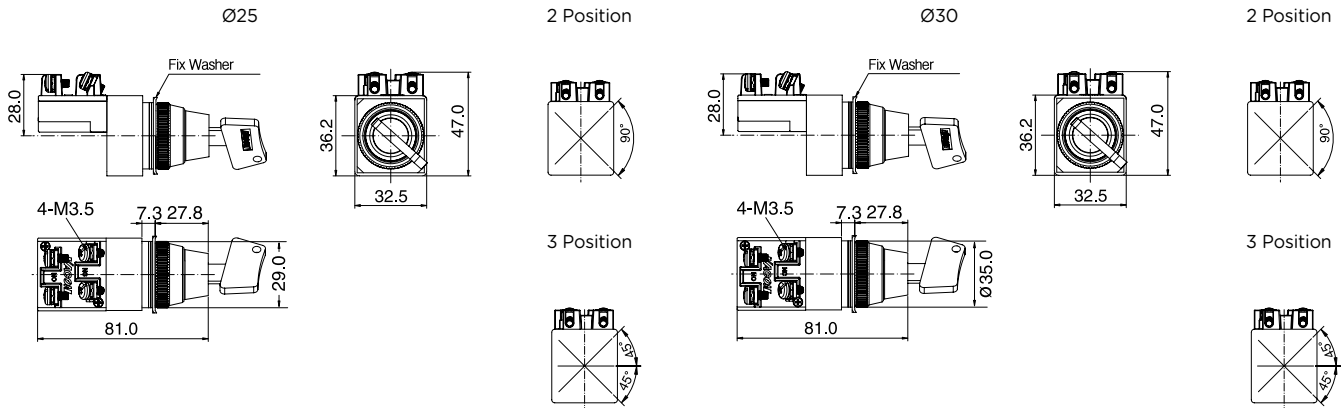
Mushroom Push Button Switch



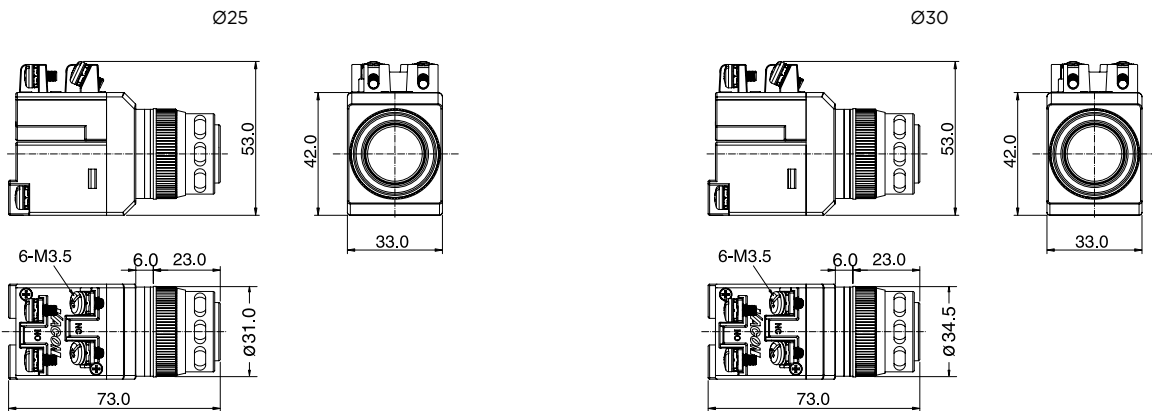
Dimension

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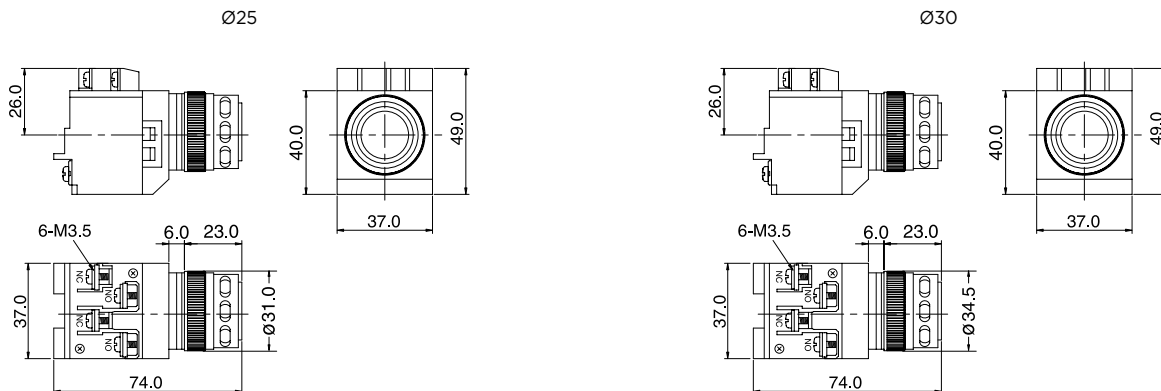
Key



Illuminated Push Button Switch



Illuminated Push Button Switch (Snap Action)



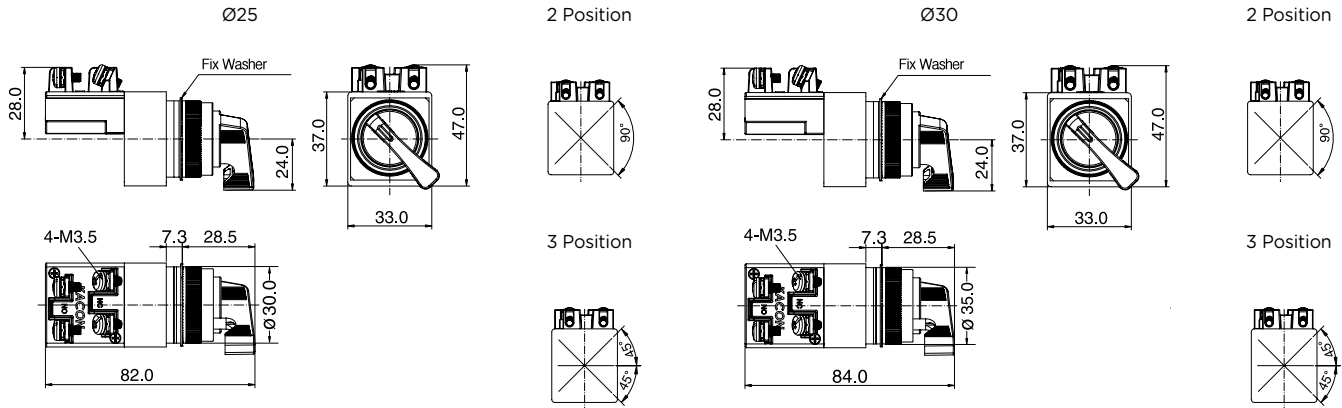
Control Switch

H Series

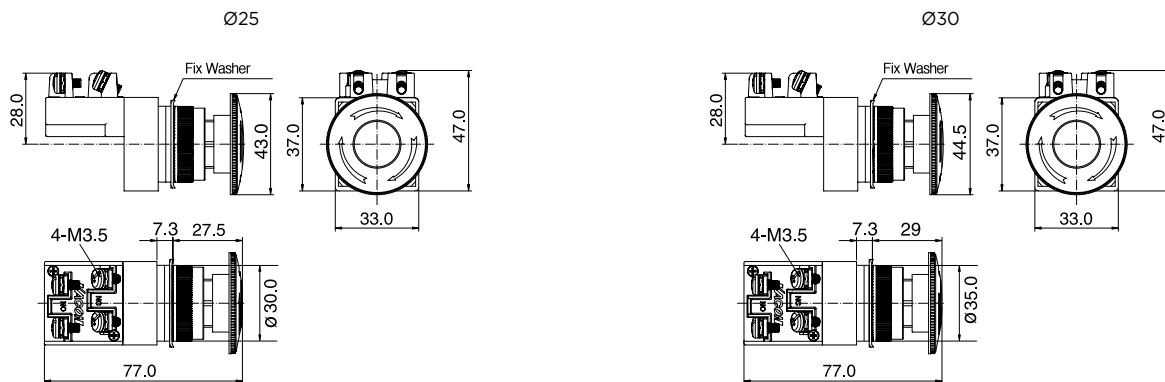
Dimension

Unit : mm

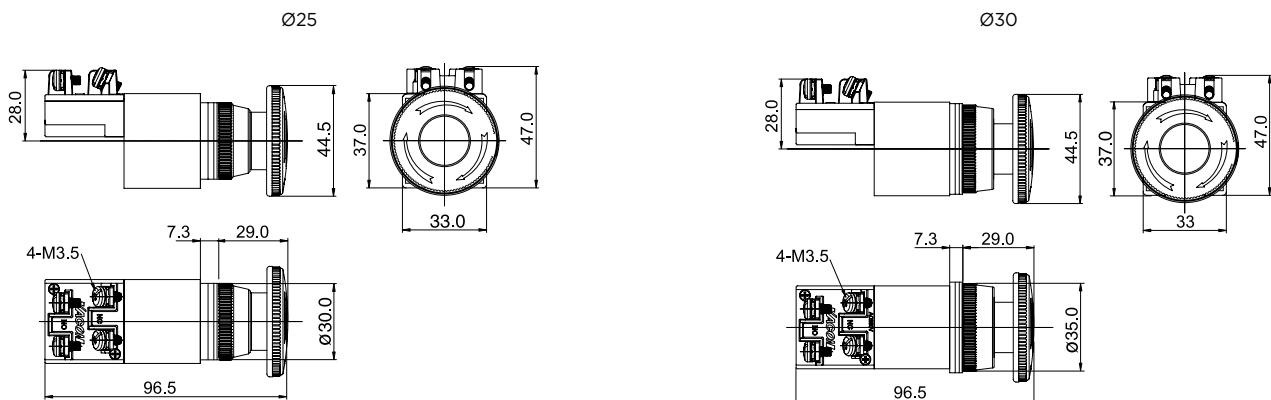
Selector



Emergency Stop Switch



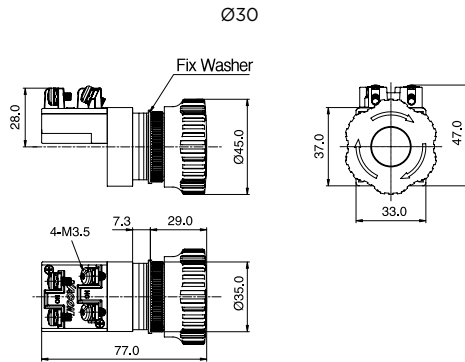
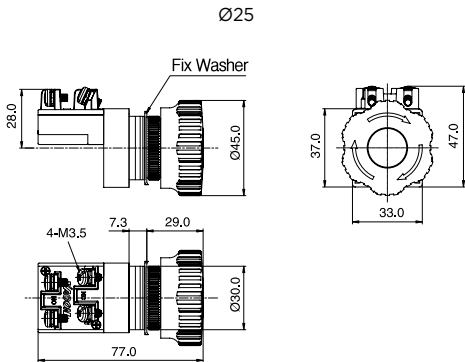
Emergency Stop Switch(Waterproof)



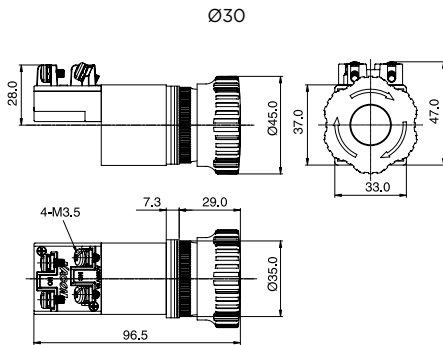
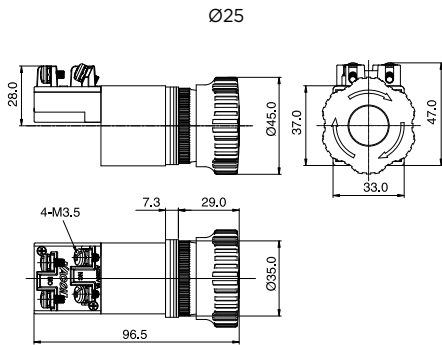
Dimension

Unit : mm

Ø45 Emergency Stop Switch



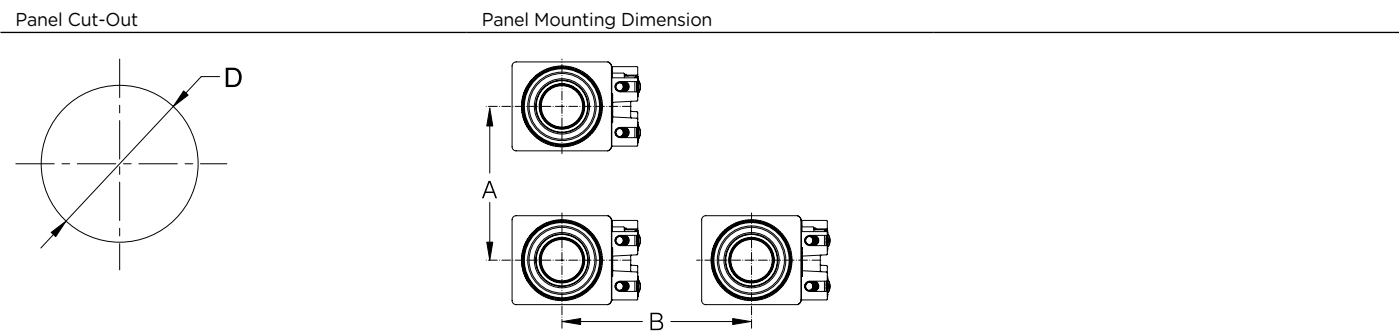
Ø45 Emergency Stop Switch(Waterproof)



Control Switch

H Series

Panel cut out & Mounting hole panel mounting space



Space Dimension		
		H25
		H30
D Panel Hole		Ø25.5 (+0.4)
A Space		Min. 45
B Space	Pilot Light	Min. 40
	Push Button	Min. 70
	Illuminated Push Button	Min. 65
	Selector	Min. 70
	Key	Min. 70
	Emergency Stop	Min. 65 (A Space 65)
	Mushroom Push Button	Min. 50

Accessory

Operator Type		Size (W×D×H)	Color	Model	Panel Cutting Hole	Model Series				
						K	H	B	KEX	
Protection Cover		64x80x39	R, G, Y, A, W	KEG12	Ø22	○	-	-	-	
				KEG15	Ø25	○	○	○	-	
				KEG13	Ø30	○	○	○	-	
		Ø55x74x37.5	Cover : C (Clear) Bottom : R, G, Y, B, C	KEG32	Ø22	○	-	-	-	
				KEG35	Ø25	○	○	○	○	
				KEG33	Ø30	○	○	○	○	
		Ø50x70x30 (Except EPB/MPB)	Cover : C (Clear) Bottom : C (Clear)	KEG42	Ø22	○	-	-	-	
				KEG45	Ø25	○	○	○	○	
				KEG43	Ø30	○	○	○	○	
		35x47x18	(Meta) Ni Plat	HP113	Ø25	○	○	○	-	
				HP114	Ø30	○	○	○	-	
		35x47x28	(Meta) Ni Plat	HP115	Ø25	○	○	○	-	
				HP116	Ø30	○	○	○	-	
		Ø80x35 (Ø65Protection/ Oil Resist/ Waterproof Cover)	R, G, Y, W, B, K (Rubber NBR)	HP120	Ø22	○	-	-	-	
					Ø25	○	-	-	-	
					Ø30	○	-	○	-	
	Name Plate		HP111 : Ø60 t=1mm HP112 : Ø75 t=1mm	Y	HP111	Ø25	○	○	○	-
					HP112	Ø30	○	○	○	-
		Ø70 t=1mm H=10mm	Y	HP117A	Ø22	○	-	-	-	
				HP117B	Ø25	○	○	○	○	
				HP117C	Ø30	○	○	○	○	
		Ø80 t=1mm H=10mm	Y	HP118A	Ø22	○	-	-	-	
				HP118B	Ø25	○	○	○	-	
				HP118C	Ø30	○	○	○	-	
		t=0.5mm (KEG1+HP119)	R, G, Y, A	HP119E	Ø22-Ø30 Public	○	-	-	-	
				HP119K		○	○	○	-	
				HP119C		○	○	○	-	

Control Switch

H Series

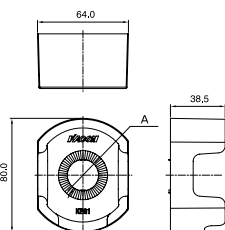
Accessory

Unit : mm

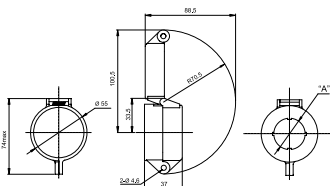
KEG12 / 15 / 13

KEG32 / 35 / 33

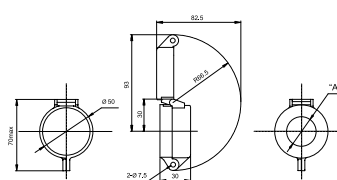
KEG42 / 45 / 43



Model	"A"	Color
KEG12	Ø22	Red, Green Orange, Blue
KEG15	Ø25	
KEG13	Ø30	



Model	"A"	Color
KEG32	Ø22	Red, Green Orange, Blue Clear, Black(K)
KEG35	Ø25	
KEG33	Ø30	

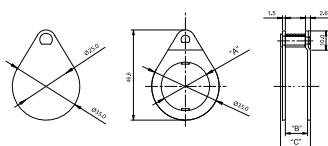


Model	"A"	Color
KEG42	Ø22	Red, Green Orange, Blue Clear, Black(K)
KEG45	Ø25	
KEG43	Ø30	

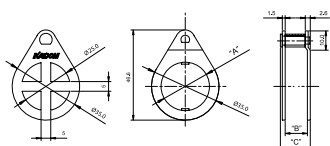
HP113 / 114

HP115 / 116

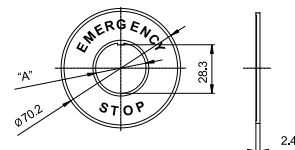
HP111 / 112



Model	"A"	"B"	"C"	Product
HP113	Ø25	14m	18m	Push Button
HP114	Ø30	14m	18m	



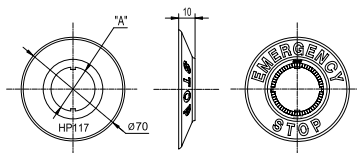
Model	"A"	"B"	"C"	Product
HP115	Ø25	23m	28m	Push Button Lighted
HP116	Ø30	23m	28m	



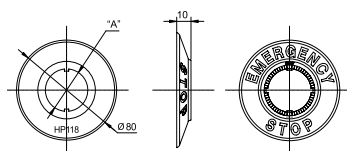
Model	"A"	Color
HP111	Ø25	Yellow
HP112	Ø30	

HP117A / 117B / 117C

HP118A / 118B / 118C



Model	"A"	Color
HP117A	Ø22	Yellow
HP117B	Ø25	
HP117C	Ø30	



Model	"A"	Color
HP118A	Ø22	Yellow
HP118B	Ø25	
HP118C	Ø30	