

Control Switch

K Series Ø22 Emergency Switch

Part Number Description

K	1	2	3	4	5	6	7
1 Operator Type	22 : Ø22						
2 Bezel Type	9 : Mushroom Emergency Stop Switch						
3 Illumination & Shape	1 : Non-Illuminated Round						
4 Color	R : Red						
5 Second Standard	None : Push Lock-Turn & Pull	T : Push Lock-Turn	TM : Metal Type Push Lock-Turn	K : Push Lock-Key Turn			
6 Marking	None	EMO	EMS	(EXM)			
7 Rated Voltage	12/24VDC	220VAC					






General Specification

Contact Ratings	Material	Ag alloy				
	Rated Current	voltage	AC12	AC13	DC12	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	-	-
	Minimum Switching Current	10A				
	Minimum Switching Voltage	440VAC				
	Contact Resistance	50mΩ				
Illumination	AC	LED	23mA			
	DC	LED	23mA			
	LED	Min. 50,000hrs				
General Ratings	Dielectric Strength	1,800VAC for 1 minute				
	Life Cycles	Mechanical	Min. 200,000			
		Electrical	Min. 500,000			
	Degree of Protection	IP65 (Key : IP40)				
	Insulation Resistance	Min. 100MΩ (500VDC)				
	Freequency of Alteration	30 / 1 Minute				
	Ambient Temperature	-25°C ~ + 70°C (with no icing)				
	Torque	0.8N·m (8.16kgf·cm)				
Button Pressure standard	Push Lock-Turn & Pull : 2.0 ~ 3.5kgf (1B Contact Standard) Push Lock-Turn : 4.0 ~ 4.5kgf (1B Contact Standard)					

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




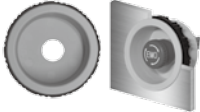







Product Selection

		Panel Cutting Hole	Contact Form	Color	Part Number	Rated Voltage
	Emergency Switch	Ø22	1N/C	적색	K22-91R K22-91R-T	-
	EMS Emergency Switch	Ø22	1N/C	적색	K22-91R-EMS K22-91R-T EMS	-
	EMO Emergency Switch	Ø22	1N/C	적색	K22-91R-EMO K22-91R-T EMO	-
	EXM Emergency Switch	Ø22	1N/C	적색	K22-91R(EXM) K22-91R-T(EXM)	-
	Metal Emergency Switch	Ø22	1N/C	적색	K22-91R-TM	-
	Metal EMS Emergency Switch	Ø22	1N/C	적색	K22-91R-TM EMS	-
	Metal EMO Emergency Switch	Ø22	1N/C	적색	K22-91R-TM EMO	-
	Metal EXM Emergency Switch	Ø22	1N/C	적색	K22-91R-TM(EXM)	-
	KEY Emergency Switch	Ø22	1N/C	적색	K22-91R-K	-
	Illuminated Emergency Switch	Ø22	1N/C	적색	K22-97R-T	12/24VDC 220VAC

Control Switch

K Series Ø22 Emergency Switch

Accessory

Operator Type		Size (W×D×H)	Ø	Color	Part Number
Safety Guard		65x81x39	Ø22	□ : Y (yellow) R (red) G (green) A (amber) W (white)	KEG12 □
Flux Type Safety Guard		Ø99 H40.8	Ø22	Yellow	KEG72
			Ø25		KEG75
			Ø30		KEG73
Safety Guard		Ø99 H40.8	Ø22	Yellow	KEG72W
			Ø25		KEG75W
			Ø30		KEG73W
Safety Guard		Ø90 H39.1	Ø22	Yellow	KEG82
			Ø25		KEG85
			Ø30		KEG83
Safety Guard		Ø90 H39.1	Ø22	White	KEG82W
			Ø25		
			Ø30		
AL Safety Guard		Ø90 H38.8	Ø22	Yellow	KEG92
			Ø25		KEG95
			Ø30		KEG93
AL Safety Guard		Ø90 H38.8	Ø22	White	KEG92W
			Ø25		KEG95W
			Ø30		KEG93W
Illuminated Safety Guard		Ø90 H43.1	Ø22	Yellow	KEG82YL-△
※ Refer to II - II - 46p for circuit configuration related matters. please		Ø25	KEG85YL-△		
		Ø30	KEG83YL-△		
박스			Ø22	황색	KEX-101Y
※ Up to 1A+1B. Up to 2 contacts left and right					

※ △ - Circuit type: N(NPN), P(PNP)





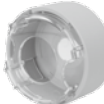

※ HP119 name panel is also suitable with KEG7,8,9 series
- Example of usage



Accessory









Operator Type	Size (W×D×H)	Ø	Color	Part Number		
	Ø60 t=2.6mm	Ø22	Product : Yellow Letter : Black	HP111A		
		Ø25		HP111B		
		Ø30		HP111C		
	Ø75 t=2.8mm	Ø22	Product : Yellow Letter : Black	HP112A		
		Ø25		HP112B		
		Ø30		HP111C		
		Ø70 t=1mm H=10mm	Ø22	Product : Yellow Letter : Black	HP117A	
			Ø25		HP117B	
			Ø30		HP117C	
		Ø80 t=1mm H=10mm	Ø22	Product : Yellow Letter : Black	HP118A	
			Ø25		HP118B	
			Ø30		HP118C	
	62 x 48.5 t=0.2mm	Ø22	Product : Yellow Letter : Black	HP119E		
		Ø25		HP119K		
		Ø30		HP119C		
		official use		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	Product : Yellow Letter : Black	HP119E(OFF)	
			Ø25		HP119E(OFF-R)	
			Ø30		HP119E-W(OFF)	
			official use		Product : White Letter : Black	HP119E-W(OFF)
					Product : White Letter : Red	HP119E-W(OFF-R)
					Product : Yellow Letter : Black	HP119E-1(STOP)
	Ø62 t=0.2mm	Ø22	Product : Yellow Letter : Black	HP119E-1(STOP)		
		Ø25		HP119E-1W(STOP)		
		Ø30		HP119E-1(STOP-R)		
	Ø62 t=0.2mm	official use	Product : Yellow Letter : Red	HP119E-1(STOP-R)		
			Product : Yellow Letter : Black	HP119E-1(OFF)		
			Product : Yellow Letter : Red	HP119E-1(OFF-R)		
			Product : White Letter : Black	HP119E-1W(OFF)		

Accessory

Operator Type		Size (W×D×H)		Color	Part Number
Full Cover Guard		76.5X65X43	Ø22	Yellow	KEG-12C
			Ø25		KEG-15C
			Ø30		KEG-13C
		76.5X65X43	Ø22	White	KEG-12CW
			Ø25		KEG-15CW
			Ø30		KEG-13CW
		Ø99 H45	Ø22	Yellow	KEG-72C
			Ø25		KEG-75C
			Ø30		KEG-73C
		Ø99 H45	Ø22	White	KEG-72CW
			Ø25		KEG-75CW
			Ø30		KEG-73CW
	Ø90 H43	Ø22	Yellow	KEG-82C	
		Ø25		KEG-85C	
		Ø30		KEG-83C	
	Ø90 H43	Ø22	White	KEG-82CW	
		Ø25		KEG-85CW	
		Ø30		KEG-83CW	









※ Caution: If the support is not cut, the emergency stop switch will not be pressed.

Accessory

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(STOP)	○	-
	 (Ø61.5X 45.5 t=0.2mm)	Product : Yellow Letter : Red	HP-1CE-R(STOP)	○	-
	 (Ø61.5X 45.5 t=0.2mm)	Product : White Letter : Black	HP-1CEW(STOP)	○	-
	 (Ø61.5X 45.5 t=0.2mm)	Product : Yellow Letter : Red	HP-1CEW- R(STOP)	○	-
	 (Ø77.6 t=0.2mm)	Product : Yellow Letter : Black	HP-7CE(STOP)	-	○
	 (Ø77.6 t=0.2mm)	Product : Yellow Letter : Red	HP-7CE-R(STOP)	-	○
	 (Ø77.6 t=0.2mm)	Product : Yellow Letter : Black	HP-7CEW(STOP)	-	○
	 (Ø77.6 t=0.2mm)	Product : Yellow Letter : Red	HP-7CEW- R(STOP)	-	○

※ Full Cover Guard Example of usage

Accessory

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

※ Full Cover Guard Example of usage



KEG-1□C +
KEX-101Y

KEG-1□C

KEG-7□C













KEG-8□C

「Combined Switch
Box and
Full Cover Guard」

Control Switch

K Series Ø22 Emergency Switch

Accessory

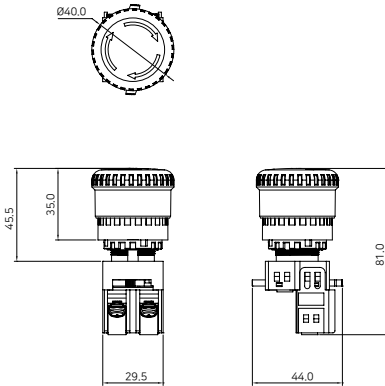
Operator Type	Contact	Color	Part Number
		1NO	CBA
	 ※ IEC60947-5-1 Positive opening type	1NC	CBB
Contact		2NO	CBA2
	 ※ IEC60947-5-1 Positive opening type	2NC	CBB2
	 ※ IEC60947-5-1 Positive opening type	1NO + 1NC	CBC
Terminal cover with hole (for CBA,CBB)			KP-10
Terminal cover without hole (for CBA,CBB)			KP-11
Trans cover with hole			KP-20
Trans cover without hole			KP-21
Terminal cover with hole (for CBA2,CBB2, CBC)			KP-30
Terminal cover without hole (for CBA2,CBB2, CBC)			KP-31
STEEL KEY			F16-KEY-A(STEEL)

Dimension

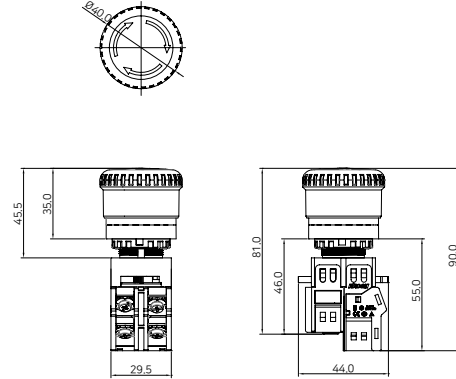
Unit : mm

Emergency Stop Switch

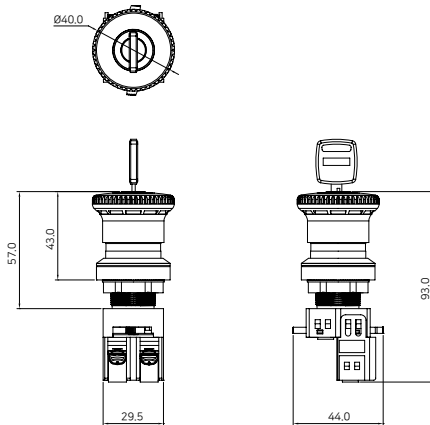
Push Lock-Turn & Pull (1B)



Push Lock-Turn & Pull (1A2B(CBA+CBB2))



Push Lock-Key Turn



Control Switch

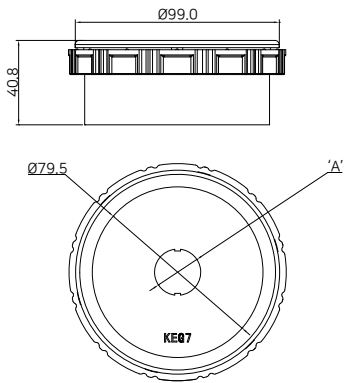
K Series Ø22 Emergency Switch

Dimension

Unit : mm

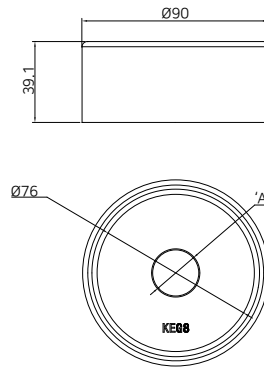
Safety Guard

KEG 7 Series



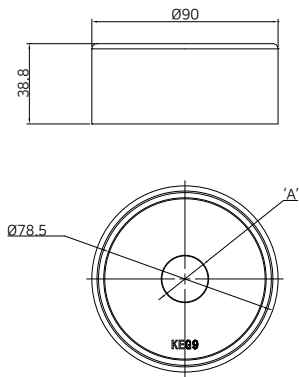
Model	'A'
KEG72	Ø22
KEG75	Ø25
KEG73	Ø30

KEG 8 Series



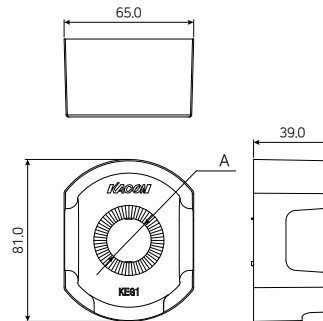
Model	'A'
KEG82	Ø22
KEG85	Ø25
KEG83	Ø30

KEG 9 Series

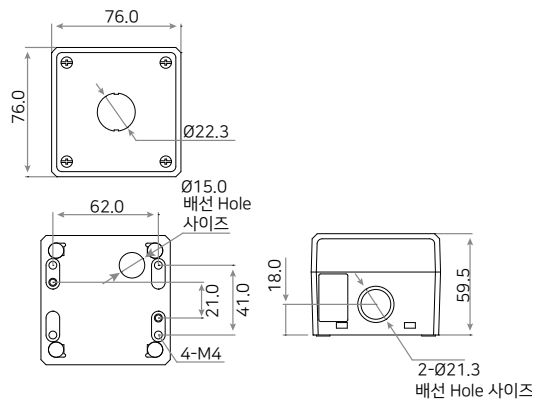


Model	'A'
KEG92	Ø22
KEG95	Ø25
KEG93	Ø30

KEG12



KEX-101Y

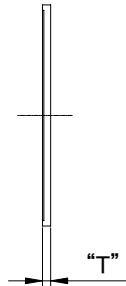
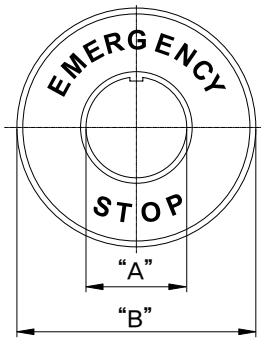


Dimension

Unit : mm

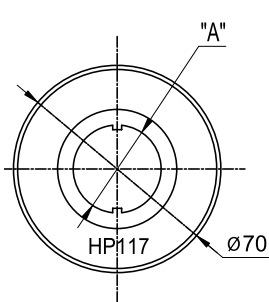
Name Plate

HP111 / 112



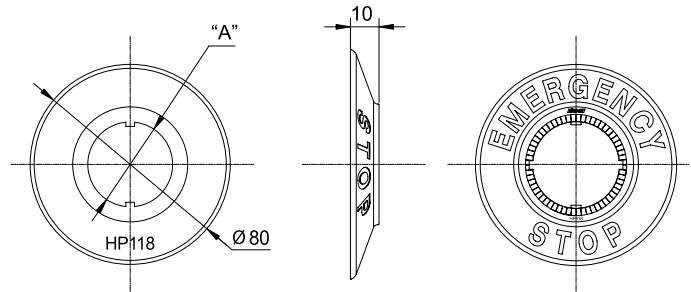
Model	"A"	"B"	"T"
HP111A	Ø22.2	Ø60	2.6
HP111B	Ø25.2	Ø60	2.6
HP111C	Ø30.1	Ø60	2.6
HP112A	Ø22.2	Ø75	2.8
HP112B	Ø25.2	Ø75	2.8
HP112C	Ø30.1	Ø75	2.8

HP117A / 117B / 117C



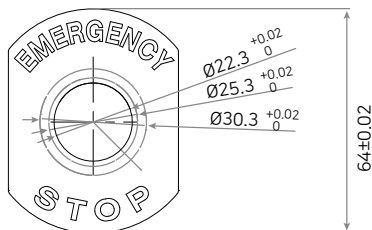
Model	"A"	Color
HP117A	Ø22	Yellow

HP118A / 118B / 118C

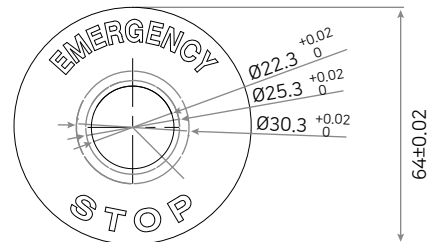


Model	"A"	Color
HP118A	Ø22	Yellow

HP119 Series



HP119-1 Series



Control Switch

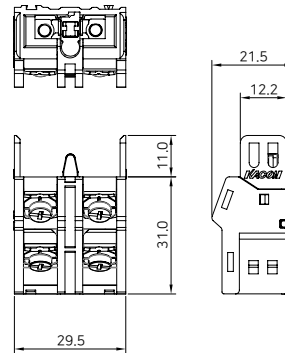
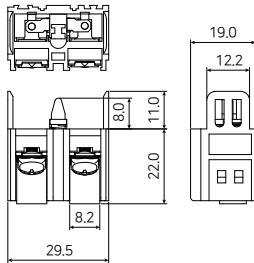
K Series Ø22 Emergency Switch

Dimension

Unit : mm

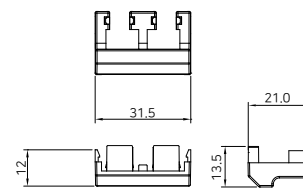
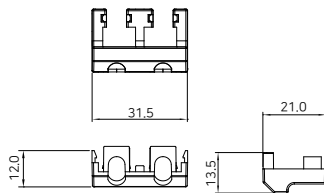
CBA / CBB

CBA2 / CBB2 / CBC



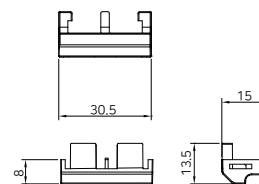
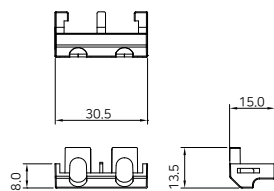
KP-10

KP-11



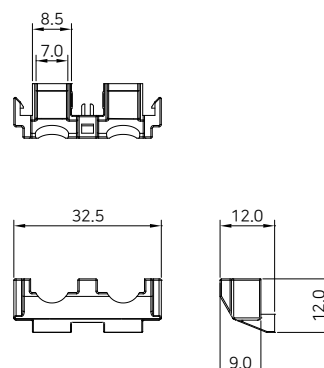
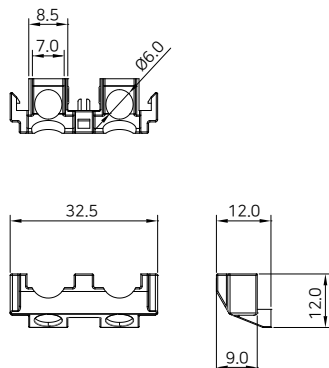
KP-20

KP-21



KP-30

KP-31

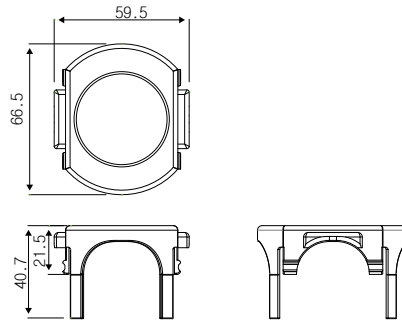
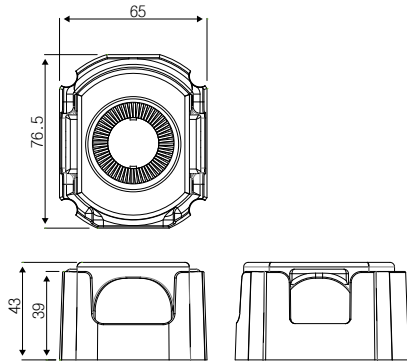


Dimension

Unit : mm

KEG-1□C

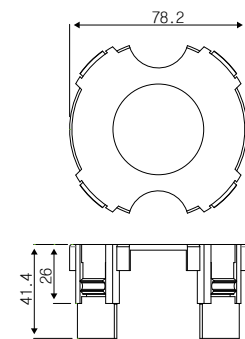
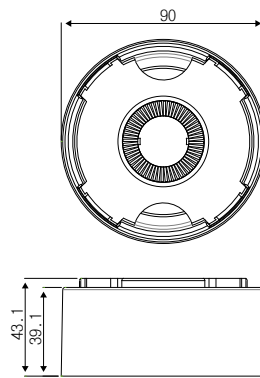
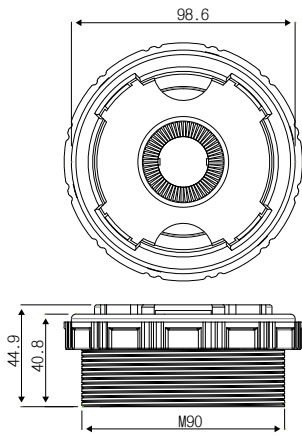
KEG-1SC



KEG-7□C

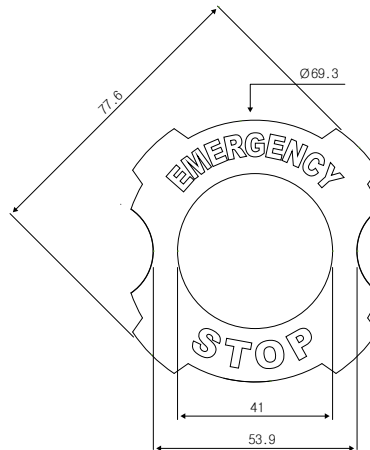
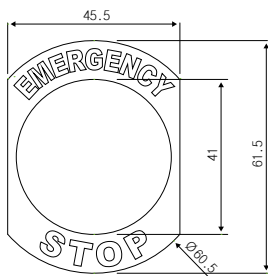
KEG-8□C

KEG-7SC



HP-1CE Series

HP-7CE Series

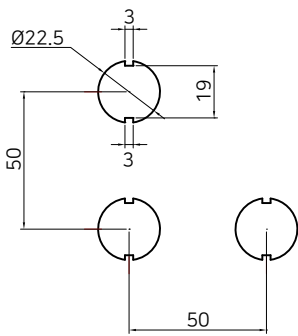


Panel Cut-Out & Panel Mounting Dimension

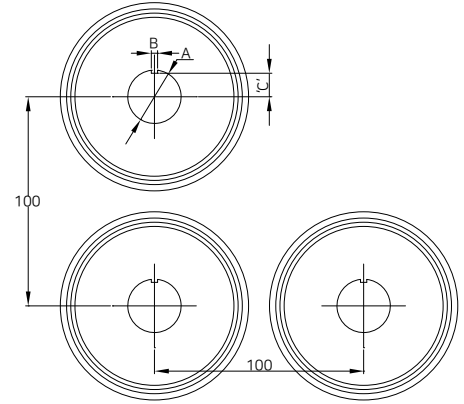
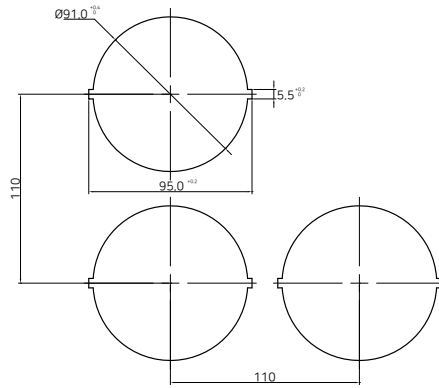
Only Emergency Stop Switch

KEG7 Series

KEG8, KEG9 Series



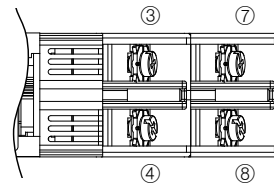
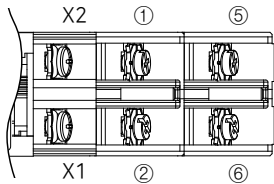
※Panel Thickness 0.5~4mm



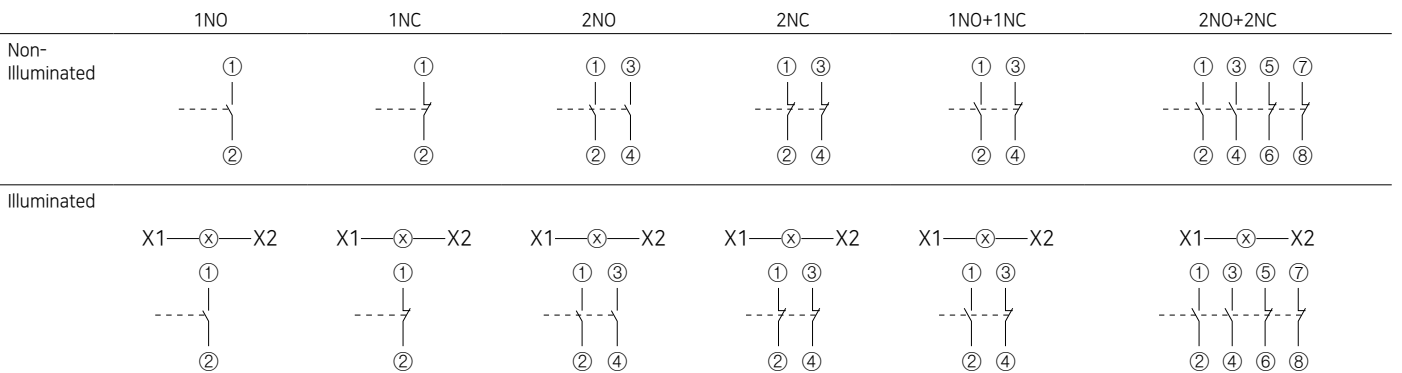
Model	'A'	'B'	'C'
KEG 82,92	Ø22.5	3	10±0.2
KEG 85,95	Ø25.5	3	11±0.2
KEG 83,93	Ø30.5	3	13.5±0.2

Contact block diagram

Diagram



Contract block configuration



※ This is example of contact block configuration for reference of usage. End user must config contact block according to their system.

Control Switch

K Series Ø22 Emergency Switch

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), 5(Ø25), 3(Ø30)
 △ - Wiring system : N(NPN), P(PNP)

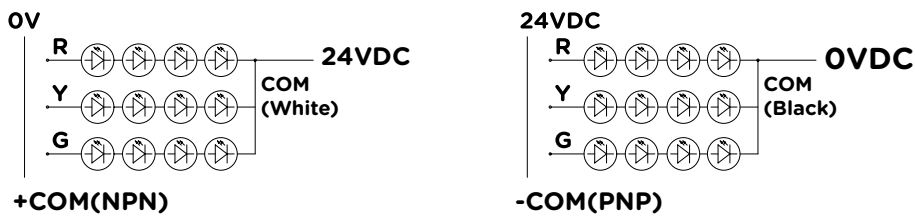
2-2
Part

K25F
K30F

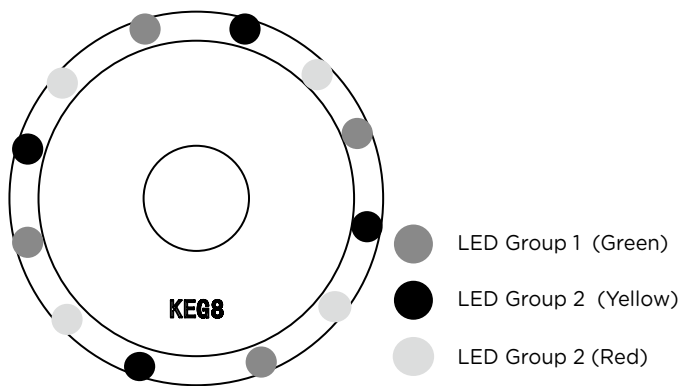
K25F
AL

K22-91

KEG8□□L-△ LED Circuit composition



KEG8□YL-△ LED Group layout circuit composition



KEG8□YL-△ Circuit wiring example

