

Control Switch

K Series Ø22 Emergency Switch

Part Number Description

K	1	-	2	3	4	-	5	6
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)				










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				
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 : 5.0 ~ 7.0kgf (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	Red	K22-91R	-
					K22-91R-T	
	EMS Emergency Switch	Ø22	1N/C	Red	K22-91R-EMS	-
					K22-91R-T EMS	
	EMO Emergency Switch	Ø22	1N/C	Red	K22-91R-EMO	-
					K22-91R-T EMO	
	EXM Emergency Switch	Ø22	1N/C	Red	K22-91R(EXM)	-
					K22-91R-T(EXM)	
	Metal Emergency Switch	Ø22	1N/C	Red	K22-91R-TM	-
	Metal EMS Emergency Switch	Ø22	1N/C	Red	K22-91R-TM EMS	-
	Metal EMO Emergency Switch	Ø22	1N/C	Red	K22-91R-TM EMO	-
	Metal EXM Emergency Switch	Ø22	1N/C	Red	K22-91R-TM(EXM)	-
	KEY Emergency Switch	Ø22	1N/C	Red	K22-91R-K	-

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		
AL Safety Guard		Ø90 H39.1	Ø22	White	KEG82W		
			Ø90 H38.8		Ø25	Yellow	KEG92
					Ø30	KEG95	
AL Safety Guard		Ø90 H38.8	Ø22	White	KEG92W		
			Ø25		KEG95W		
			Ø30		KEG93W		
Illuminated Safety Guard		Ø90 H43.1	Ø22	Yellow	KEG82YL-△		
			Ø25		KEG85YL-△		
			Ø30		KEG83YL-△		
박스			Ø22	황색	KEX-101Y		






※ Refer to II-II-46p for circuit configuration related matters. please

※ 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
	Ø75 t=2.8mm	Ø22	Product : Yellow Letter : Black	HP112A
	Ø70 t=1mm H=10mm	Ø22	Product : Yellow Letter : Black	HP117A
	Ø80 t=1mm H=10mm	Ø22	Product : Yellow Letter : Black	HP118A
	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)
			Product : Yellow Letter : Black	HP119E(OFF)
Name Plate	62 x 48.5 t=0.2mm	Ø22 official use	Product : Yellow Letter : Red	HP119E(OFF-R)
			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 official use	Product : White Letter : Black	HP119E-1W(STOP)
			Product : Yellow Letter : Red	HP119E-1(STOP-R)
			Product : Yellow Letter : Black	HP119E-1(OFF)
	Ø62 t=0.2mm	Ø22 official use	Product : Yellow Letter : Red	HP119E-1(OFF-R)
			Product : White Letter : Black	HP119E-1W(OFF)

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

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 is not cut, the emergency stop switch will not 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

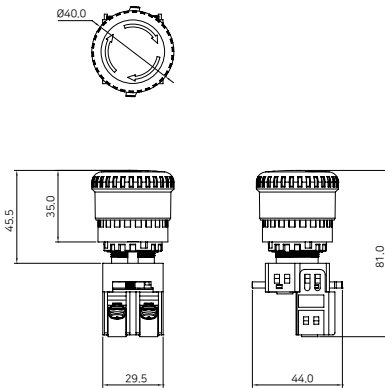
KEG-8□C

Dimension

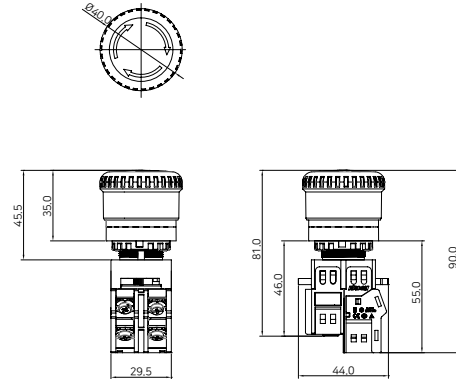
Unit : mm

Emergency Stop Switch

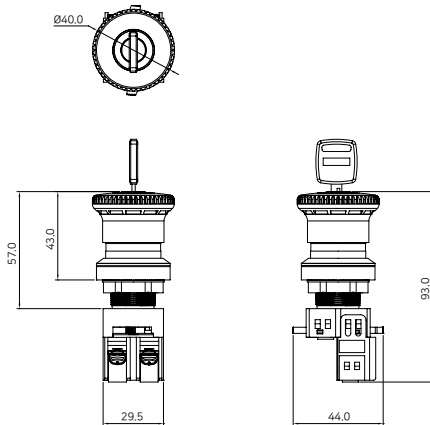
Push Lock-Turn & Pull (1B)



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



Push Lock-Key Turn



Control Switch

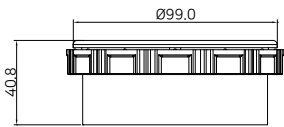
K Series Ø22 Emergency Switch

Dimension

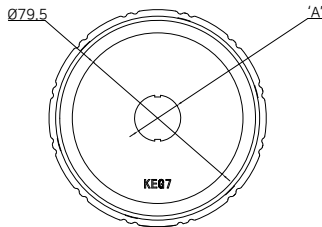
Unit : mm

Safety Guard

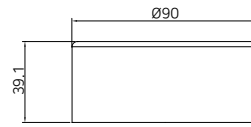
KEG 7 Series



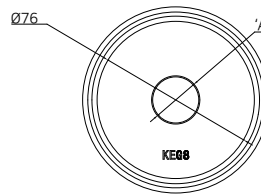
Model	'A'
KEG72	Ø22



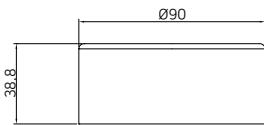
KEG 8 Series



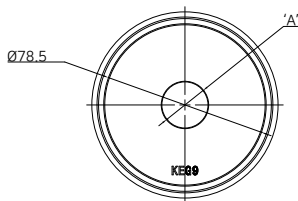
Model	'A'
KEG82	Ø22



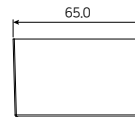
KEG 9 Series



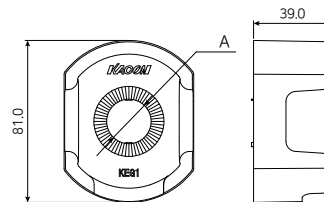
Model	'A'
KEG92	Ø22



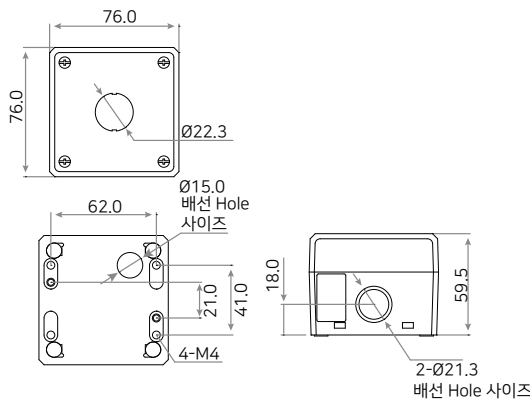
KEG12



model	KEG12 K22
A	Ø22.0



KEX-101Y

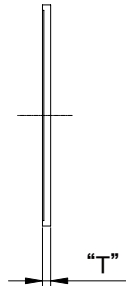
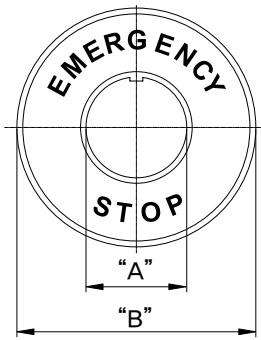


Dimension

Unit : mm

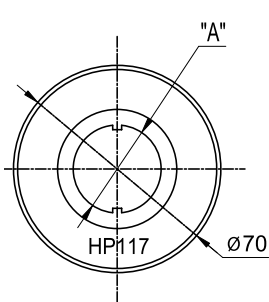
Name Plate

HP111 / 112



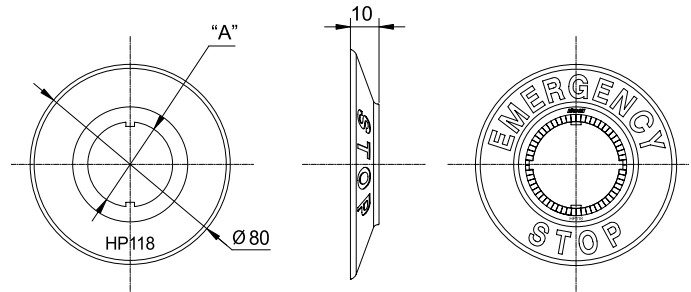
Model	"A"	"B"	"T"
HP111A	Ø22.2	Ø60	2.6
HP112A	Ø22.2	Ø75	2.8

HP117A



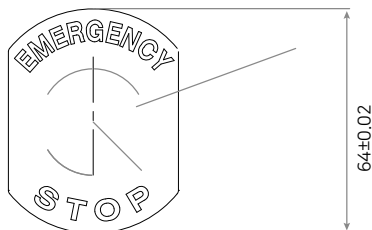
Model	"A"	Color
HP117A	Ø22	Yellow

HP118A

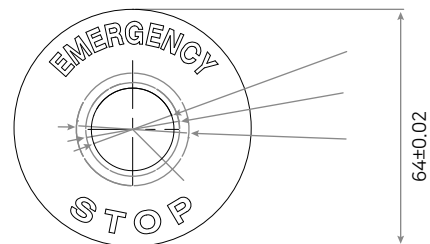


Model	"A"	Color
HP118A	Ø22	Yellow

HP119 Series



HP119-1 Series



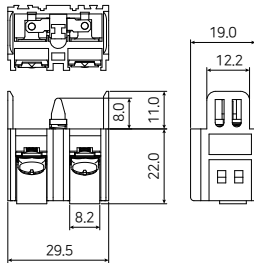
Control Switch

K Series Ø22 Emergency Switch

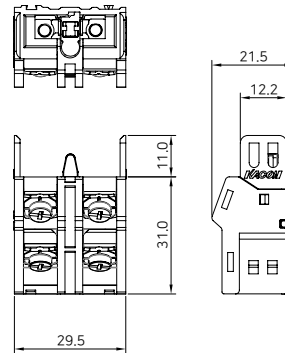
Dimension

Unit : mm

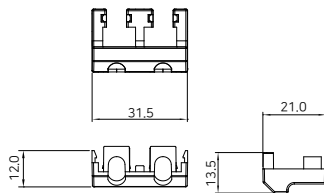
CBA / CBB



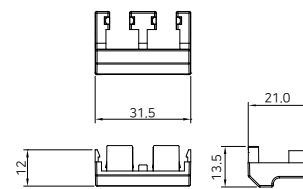
CBA2 / CBB2 / CBC



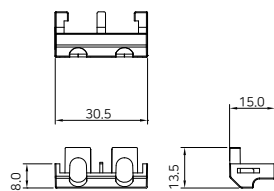
KP-10



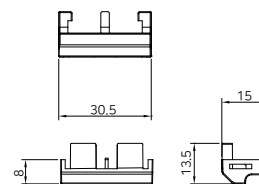
KP-11



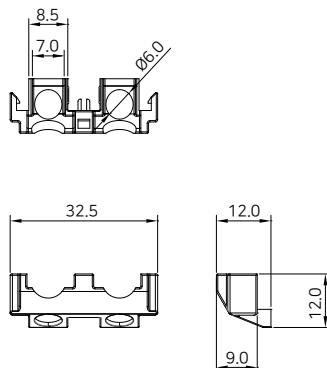
KP-20



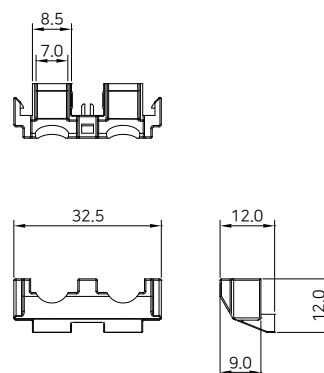
KP-21



KP-30



KP-31

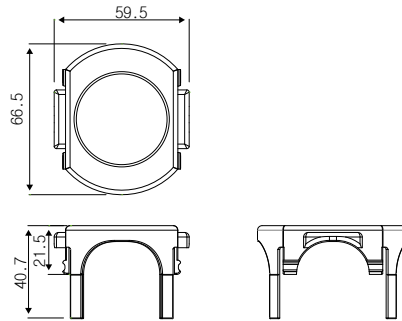
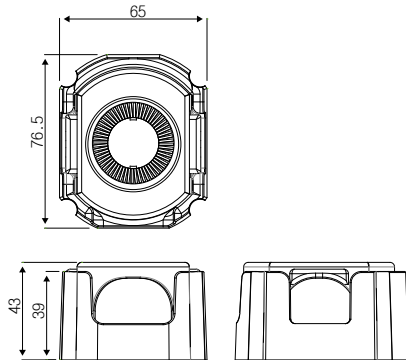


Dimension

Unit : mm

KEG-1□C

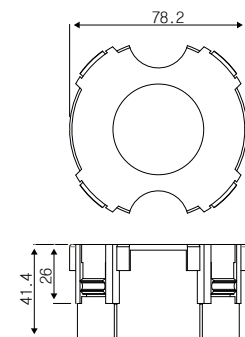
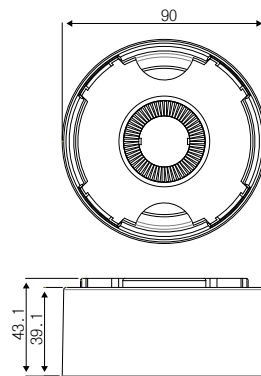
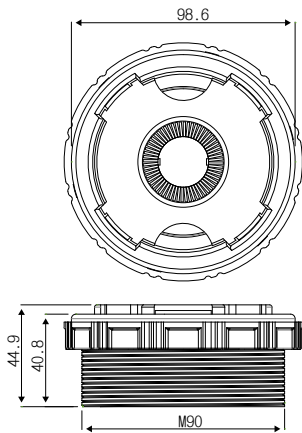
KEG-1SC



KEG-7□C

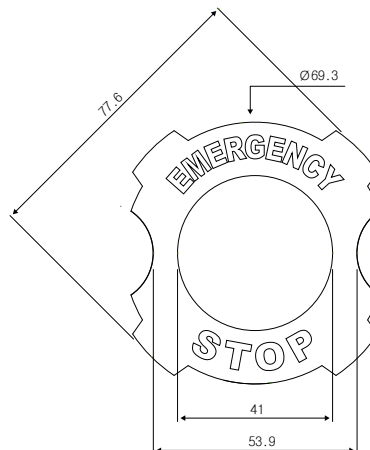
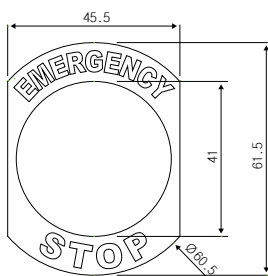
KEG-8□C

KEG-7SC



HP-1CE Series

HP-7CE Series

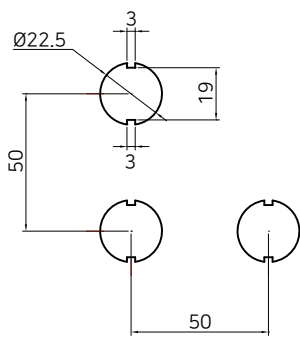


Panel Cut-Out & Panel Mounting Dimension

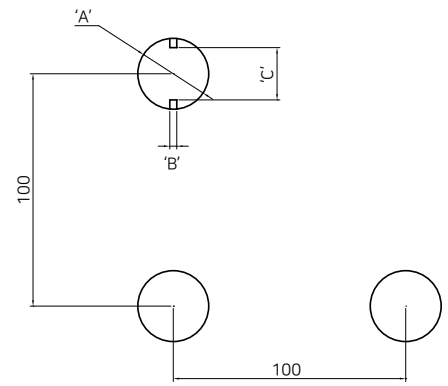
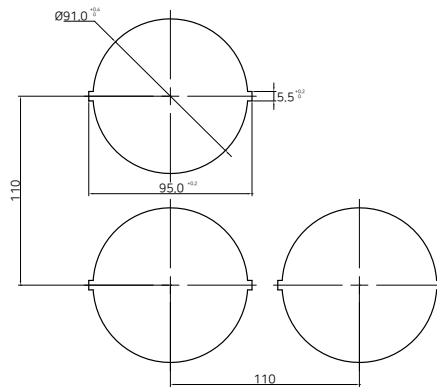
Only Emergency Stop Switch

KEG7 Series

KEG8, KEG9 Series



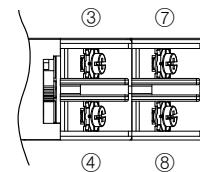
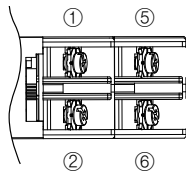
※Panel Thickness 0.5~4mm



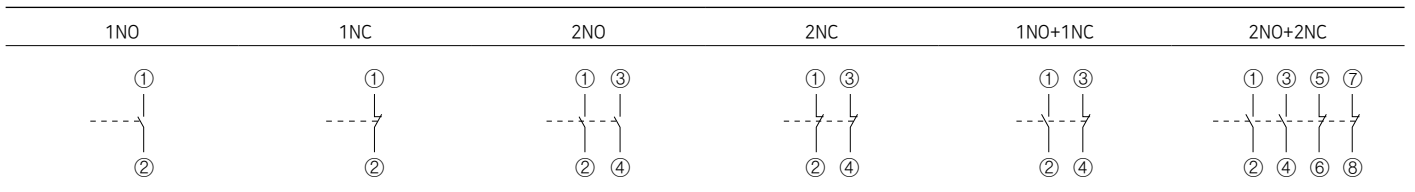
Model	'A'	'B'	'C'
KEG 82,92	Ø22.5	3	19.5

Contact block terminal configuration and diagram

Contact block terminal configuration



Contact block terminal diagram



Control Switch

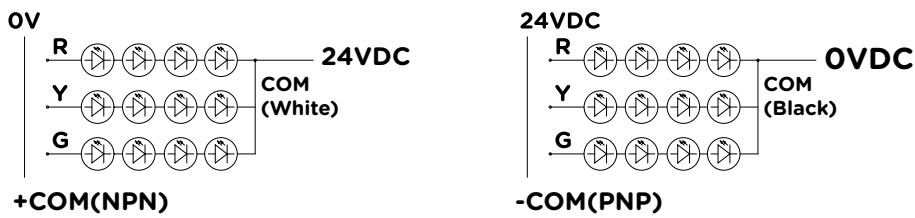
K Series Ø22 Emergency Switch

KEG8□YL-△ Circuit composition

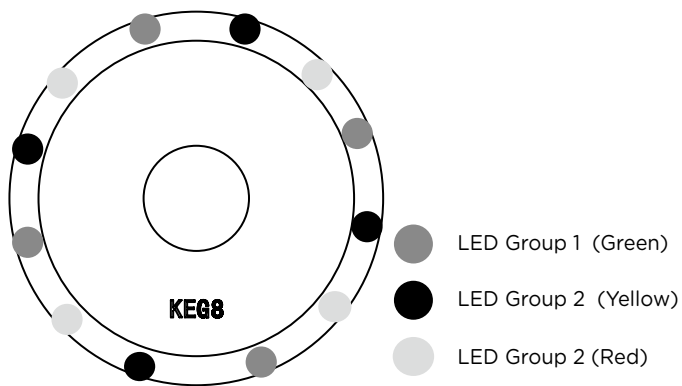
	Wiring system	com	LED Group 1	LED Group 2	LED Group 3
color	+com	White (W)	Red(R)	Yellow(Y)	Green(G)
	-com	Black(K)	Red(R)	Yellow(Y)	Green(G)

※ □ - Ø : 2(Ø22), 5(Ø25), 3(Ø30)
 △ - Wiring system : N(NPN), P(PNP)

KEG8□□L-△ LED Circuit composition



KEG8□YL-△ LED Group layout circuit composition



KEG8□YL-△ Circuit wiring example

