

Box Switch

KEX Series



KEX-901



KEX-801R-N30



KEX-801R-N40



KEX-801R-B40



KEX-801R-B60



KEX-701R



KEX-410K,520K



KEX-310



KEX-210



KEX-G801R-N40



KEX-G801R-B40



KEX-G801R-N30



KEX-G701R



KEX-G410K, G510K



KEX-G210



KEX-G310



KEX-G801R-B60



KEX-901



KEX-P801R-N40



KEX-P801R-B40



KEX-P701R



KEX-P801R-N30

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Part Number Description

KEX - 1 2 3 4 5 6

1 Model	No mark : Standard	G : Guard Type	P : Emergency/Stop Name Plate Type
2 Operator Type	2 : Push Button 5 : Selector 3 Position 8 : Emergency Stop - Ø30, Ø40	3 : Mushroom Push Button 6 : Emergency Stop - Push / Pull 9 : Mushroom Push Button - Ball	4 : Selector 2 Position 7 : Emergency Stop - Key
3 Contact Form	10 : 1N/O 20 : 2N/O	01 : 1N/C 02 : 2N/C	11 : 1N/O + 1N/C
4 Color	R : Red B : Blue	G : Green K : Black	Y : Yellow
5 Rated Voltage	D4 : 24VAC/DC A2 : 220VAC	D1 : 110VDC A3 : 380VAC	A1 : 110VAC No mark : No Indicator
6 Button size <small>(Only 3 and 8 of the operator types)</small>	N30 : Ø30 (only Emergency Stop) B60 : Ø60 Full Guard	N40 : Ø40	B40 : Ø40 Full Guard

※ Please refer to the product division chart for possible products for each product.

※ * Marking is on-demand.

1. Contact Block		2. Base Color			3. Pilot lamp	
Division	Contact	Base	Cove	Model ②	LED	Model ②
KEX-CB10	1N/O	Gray	Yellow	7,8,9 Type	Blue off → flashing	Emergency - 7,8 Type
KEX-CB01	1N/C	Gray	White Gray	2,3,4,5 Type	Blue light → light off	2,3,4,5 Type

General Specification

	Contact Material	Ag Alloy (24K Au plate)					
Contact Ratings		Voltage	AC 12 Grade	AC 15 Grade	DC 12 Grade	DC 13 Grade	
	Rated Current	24V	10A	10A	10A	5A	
		110V	10A	5A	2.2A	1.1A	
		250V	6A	3A	1.1A	0.6A	
		380V	2A	1A	-	-	
	Maximum Rated Voltage	600V					
	Rated Switching Current	10A					
	Isolation Resistance	100MΩ min.(at 500VDC)					
	Contact Resistance	최대 20mΩ					
	Dielectric Strength	2,000VAC (50/60Hz for 1 minute.)					
General Ratings	Life Cycle	Mechanical	Push Button : Min 5,000,000		Etc : Min 500,000		
		Electrical	Min. 100,000 (10A 250VAC resistor load)				
	Vibration Resistance	Malfunction	10 ~ 55Hz Durable Amplitude				
	Shock Resistance	Destruction	Min. 1,000m/S ² (100G min)				
Malfunction		Min. 100m/S ² (10G min)					
	Degree of Protection	IP 65 (Key IP40) / Double-wall insulation structure					
	Ambient Temperature	-25 ~ 60°C (with no icing)					
	Ambient Humidity	80%RH					

Product Selection

Operator Type	Shape	Contact Form	Color	Part Number	Rated Voltage
Momentary Push Button + LED Indicator	Ø28 Round	1N/O	Red	KEX-210R	24VAC/DC 110VDC 110VAC 220VAC
			Green	KEX-210G	
			Yellow	KEX-210Y	
			Blue	KEX-210B	
		1N/C	Red	KEX-201R	24VAC/DC 110VDC 110VAC 220VAC
			Green	KEX-201G	
			Yellow	KEX-201Y	
			Blue	KEX-201B	
		1N/O + 1N/C	Red	KEX-211R	24VAC/DC 110VDC 110VAC 220VAC
			Green	KEX-211G	
			Yellow	KEX-211Y	
			Blue	KEX-211B	
		2N/O	Red	KEX-220R	24VAC/DC 110VDC 110VAC 220VAC
			Green	KEX-220G	
			Yellow	KEX-220Y	
			Blue	KEX-220B	
		2N/C	Red	KEX-202R	24VAC/DC 110VDC 110VAC 220VAC
			Green	KEX-202G	
			Yellow	KEX-202Y	
			Blue	KEX-202B	



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Product Selection



Operator Type	Shape	Contact Form	Color	Part Number	Rated Voltage		
Mushroom Momentary Push Button + LED Indicator	Ø40 Round	1N/O	Red	KEX-310R-N40	24VAC/DC 110VDC		
			Green	KEX-310G-N40	110VAC 220VAC		
		1N/C	Red	KEX-301R-N40	24VAC/DC 110VDC		
			Green	KEX-301G-N40	110VAC 220VAC		
		1N/O + 1N/C	Red	KEX-311R-N40	24VAC/DC 110VDC		
			Green	KEX-311G-N40	110VAC 220VAC		
	2N/O	Red	KEX-320R-N40	24VAC/DC 110VDC			
			KEX-320G-N40	110VAC 220VAC			
		2N/C	Red	KEX-302R-N40	24VAC/DC 110VDC		
			Green	KEX-302G-N40	110VAC 220VAC		
		Selector Switch + LED Indicator	2 Position	1N/O	Black	KEX-410K	24VAC/DC 110VDC 110VAC 220VAC
					Black	KEX-401K	24VAC/DC 110VDC 110VAC 220VAC
1N/O + 1N/C	Black			KEX-411K	24VAC/DC 110VDC 110VAC 220VAC		
3 Position	1N/O + 1N/C		Black	KEX-511K	24VAC/DC 110VDC 110VAC 220VAC		
			Black	KEX-520K	24VAC/DC 110VDC 110VAC 220VAC		
	2N/C		Black	KEX-502K	24VAC/DC 110VDC 110VAC 220VAC		
Key Emergency Stop + LED Indicator	KEY	1N/C	Red	KEX-701R	24VAC/DC 110VDC 110VAC 220VAC		



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Product Selection

Operator Type	Shape	Contact Form	Color	Part Number	Rated Voltage		
Emergency Stop + LED Indicator 	Ø30 Round	1N/O	Red	KEX-810R-N30	24VDC/AC		
					110VDC		
					110VAC		
		1N/C	Red	KEX-801R-N30	220VAC		
					24VDC/AC		
					110VDC		
	Ø40 Round	1N/O + 1N/C	Red	KEX-811R-N30	110VAC		
					220VAC		
					24VDC/AC		
		2N/O	Red	KEX-820R-N30	110VDC		
					110VAC		
					220VAC		
2N/C	Red	KEX-802R-N30	24VDC/AC				
			110VDC				
			110VAC				
Emergency Stop + LED Indicator 	Ø40 Round	1N/O	Red	KEX-810R-N40	24VDC/AC		
					Green	KEX-810G-N40	110VDC
							Yellow
		220VAC					
		1N/C	Red	KEX-801R-N40	24VDC/AC		
					Green	KEX-801G-N40	110VDC
	Yellow						KEX-801Y-N40
		220VAC					
		Ø40 Round	1N/O + 1N/C	Red	KEX-811R-N40	24VDC/AC	
	Green					KEX-811G-N40	110VDC
							Yellow
			220VAC				
	2N/O		Red	KEX-820R-N40	24VDC/AC		
					Green	KEX-820G-N40	110VDC
		Yellow					KEX-820Y-N40
	220VAC						
	2N/C		Red	KEX-802R-N40	24VDC/AC		
		Green			KEX-802G-N40	110VDC	
Yellow						KEX-802Y-N40	110VAC
	220VAC						



Product Selection

Operator Type	Shape	Contact Form	Color	Part Number	Rated Voltage		
Emergency Full Guard Stop + LED Indicator 	Ø40 Round	1N/O	Red	KEX-810R-B40	24VDC/AC		
			Green	KEX-810G-B40	110VDC		
			Yellow	KEX-810Y-B40	110VAC		
		1N/C	Yellow	KEX-810Y-B40	220VAC		
			Red	KEX-801R-B40	24VDC/AC		
			Green	KEX-801G-B40	110VDC		
		1N/O + 1N/C	Green	KEX-801G-B40	110VAC		
			Yellow	KEX-801Y-B40	220VAC		
			Red	KEX-811R-B40	24VDC/AC		
		2N/O	Green	KEX-811G-B40	110VDC		
			Yellow	KEX-811Y-B40	110VAC		
			Yellow	KEX-811Y-B40	220VAC		
		Emergency Stop 	Ø60 Round	1N/O	Red	KEX-820R-B40	24VDC/AC
					Green	KEX-820G-B40	110VDC
				2N/O	Yellow	KEX-820Y-B40	110VAC
Yellow	KEX-820Y-B40				220VAC		
2N/C	Red			KEX-802R-B40	24VDC/AC		
	Green			KEX-802G-B40	110VDC		
Mushroom Momentary Push Button 	Ball Type	1N/O	Red	KEX-802Y-B40	220VAC		
			Green	KEX-802Y-B40	220VAC		
		1N/C	Red	KEX-820R-B60	24VDC/AC		
			Red	KEX-820R-B60	110VDC		
		1N/O + 1N/C	Red	KEX-820R-B60	110VAC		
			Red	KEX-802R-B60	220VAC		
		2N/O	Red	KEX-802R-B60	-		
			Red	KEX-802R-B60	-		
		2N/C	Red	KEX-910R	-		
			Green	KEX-910G	-		
		1N/C	Red	KEX-901R	-		
			Green	KEX-901G	-		
1N/O + 1N/C	Red	KEX-911R	-				
	Green	KEX-911G	-				
2N/O	Red	KEX-920R	-				
	Green	KEX-920G	-				
2N/C	Red	KEX-902R	-				
	Green	KEX-902R	-				

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Operator Type	Shape	Contact Form	Color	Part Number	Rated Voltage
Name Plate Type Key Emergency Stop 	KEY	1N/O	Red	KEX-P710R	-
		1N/C	Red	KEX-P701R	-
		1N/O + 1N/C	Red	KEX-P711R	-
		2N/O	Red	KEX-P720R	-
		2N/C	Red	KEX-P702R	-
Name Plate Type Ø30 Emergency Stop 	Ø30 Round	1N/O	Red	KEX-P810R-N30	-
		1N/C	Red	KEX-P801R-N30	-
		1N/O + 1N/C	Red	KEX-P811R-N30	-
		2N/O	Red	KEX-P820R-N30	-
		2N/C	Red	KEX-P802R-N30	-

Product Selection


Operator Type	Shape	Contact Form	Color	Part Number	Rated Voltage
Name Plate Type Ø40 Emergency Stop	Ø40 Round	1N/O	Red	KEX-P810R-N40	-
			Green	KEX-P810G-N40	
			Yellow	KEX-P810Y-N40	
		1N/C	Red	KEX-P801R-N40	-
			Green	KEX-P801G-N40	
			Yellow	KEX-P801Y-N40	
		1N/O + 1N/C	Red	KEX-P811R-N40	-
			Green	KEX-P811G-N40	
			Yellow	KEX-P811Y-N40	
		2N/O	Red	KEX-P820R-N40	-
			Green	KEX-P820G-N40	
			Yellow	KEX-P820Y-N40	
		2N/C	Red	KEX-P802R-N40	-
			Green	KEX-P802G-N40	
			Yellow	KEX-P802Y-N40	
Name Plate Type Ø40 Emergency Full Guard Stop	Ø40 Round	1N/O	Red	KEX-P810R-B40	-
			Green	KEX-P810G-B40	
			Yellow	KEX-P810Y-B40	
		1N/C	Red	KEX-P801R-B40	-
			Green	KEX-P801G-B40	
			Yellow	KEX-P801Y-B40	
		1N/O + 1N/C	Red	KEX-P811R-B40	-
			Green	KEX-P811G-B40	
			Yellow	KEX-P811Y-B40	
		2N/O	Red	KEX-P820R-B40	-
			Green	KEX-P820G-B40	
			Yellow	KEX-P820Y-B40	
		2N/C	Red	KEX-P802R-B40	-
			Green	KEX-P802G-B40	
			Yellow	KEX-P802Y-B40	



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Product Selection

Operator Type	Shape	Contact Form	Color	Part Number	Rated Voltage
Guard Type Momentary Push Button + LED Indicator 	Ø28 Round	1N/O	Red	KEX-G210R	24VAC/DC 110VDC 110VAC 220VAC
			Green	KEX-G210G	
			Yellow	KEX-G210Y	
			Blue	KEX-G210B	
			White	KEX-G210W	
		1N/C	Red	KEX-G201R	24VAC/DC 110VDC 110VAC 220VAC
			Green	KEX-G201G	
			Yellow	KEX-G201Y	
			Blue	KEX-G201B	
			White	KEX-G201W	
		1N/O + 1N/C	Red	KEX-G211R	24VAC/DC 110VDC 110VAC 220VAC
			Green	KEX-G211G	
			Yellow	KEX-G211Y	
			Blue	KEX-G211B	
			White	KEX-G211W	
		2N/O	Red	KEX-G220R	24VAC/DC 110VDC 110VAC 220VAC
			Green	KEX-G220G	
			Yellow	KEX-G220Y	
			Blue	KEX-G220B	
			White	KEX-G220W	
2N/C	Red	KEX-G202R	24VAC/DC 110VDC 110VAC 220VAC		
	Green	KEX-G202G			
	Yellow	KEX-G202Y			
	Blue	KEX-G202B			
	White	KEX-G202W			

Product Selection

Operator Type	Shape	Contact Form	Color	Part Number	Rated Voltage		
Guard Type Mushroom Momentary Push Button - Ø40 + LED Indicator	Ø40 Round	1N/O	Red	KEX-G310R-N40	24VAC/DC 110VDC 110VAC 220VAC		
			Green	KEX-G310G-N40	220VAC		
		1N/C	Red	KEX-G301R-N40	24VAC/DC 110VDC 110VAC 220VAC		
			Green	KEX-G301G-N40	220VAC		
		1N/O + 1N/C	Red	KEX-G311R-N40	24VAC/DC 110VDC 110VAC 220VAC		
			Green	KEX-G311G-N40	220VAC		
		2N/O	Red	KEX-G320R-N40	24VAC/DC 110VDC 110VAC 220VAC		
			Green	KEX-G320G-N40	220VAC		
		2N/C	Red	KEX-G302R-N40	24VAC/DC 110VDC 110VAC 220VAC		
			Green	KEX-G302G-N40	220VAC		
		Guard Type Selector Switch	2 Position	1N/O	Black	KEX-G410K	-
					Black	KEX-G401K	-
Black	KEX-G411K				-		
3 Position	1N/O + 1N/C		Black	KEX-G511K	-		
			Black	KEX-G520K	-		
			Black	KEX-G502K	-		



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Product Selection

Operator Type	Shape	Contact Form	Color	Part Number	Rated Voltage
Guard Type Key Emergency Stop	KEY	1N/O	Red	KEX-G710R	
		1N/C	Red	KEX-G701R	
		1N/O + 1N/C	Red	KEX-G711R	
		2N/O	Red	KEX-G720R	
		2N/C	Red	KEX-G702R	
Guard Type Emergency Stop - Ø30	Ø30 Round	1N/O	Red	KEX-G810R-N30	- 24VDC/AC 110VDC 110VAC 220VAC
		1N/C	Red	KEX-G801R-N30	- 24VDC/AC 110VDC 110VAC 220VAC
		1N/O + 1N/C	Red	KEX-G811R-N30	- 24VDC/AC 110VDC 110VAC 220VAC
		2N/O	Red	KEX-G820R-N30	- 24VDC/AC 110VDC 110VAC 220VAC
		2N/C	Red	KEX-G802R-N30	- 24VDC/AC 110VDC 110VAC 220VAC

※ The model without voltage display is the model without LED.

Product Selection

Operator Type	Shape	Contact Form	Color	Part Number	Rated Voltage
Guard Type Emergency Stop - Ø40		1N/O	Red	KEX-G810R-N40	-
			Green	KEX-G810G-N40	24VDC/AC
			Yellow	KEX-G810Y-N40	110VDC 110VAC 220VAC
		1N/C	Red	KEX-G801R-N40	-
			Green	KEX-G801G-N40	24VDC/AC
			Yellow	KEX-G801Y-N40	110VDC 110VAC 220VAC
		1N/O + 1N/C	Red	KEX-G811R-N40	-
			Green	KEX-G811G-N40	24VDC/AC
			Yellow	KEX-G811Y-N40	110VDC 110VAC 220VAC
		2N/O	Red	KEX-G820R-N40	-
			Green	KEX-G820G-N40	24VDC/AC
			Yellow	KEX-G820Y-N40	110VDC 110VAC 220VAC
		2N/C	Red	KEX-G802R-N40	-
			Green	KEX-G802G-N40	24VDC/AC
			Yellow	KEX-G802Y-N40	110VDC 110VAC 220VAC
Guard Type Emergency Full Guard Stop + LED Indicator		1N/O	Red	KEX-G810R-B40	24VAC/DC
			Green	KEX-G810G-B40	110VDC
			Yellow	KEX-G810Y-B40	110VAC 220VAC
		1N/C	Red	KEX-G801R-B40	24VAC/DC
			Green	KEX-G801G-B40	110VDC
			Yellow	KEX-G801Y-B40	110VAC 220VAC
		1N/O + 1N/C	Red	KEX-G811R-B40	24VAC/DC
			Green	KEX-G811G-B40	110VDC
			Yellow	KEX-G811Y-B40	110VAC 220VAC
		2N/O	Red	KEX-G820R-B40	24VAC/DC
			Green	KEX-G820G-B40	110VDC
			Yellow	KEX-G820Y-B40	110VAC 220VAC
		2N/C	Red	KEX-G802R-B40	24VAC/DC
			Green	KEX-G802G-B40	110VDC
			Yellow	KEX-G802Y-B40	110VAC 220VAC
Guard Type Ø60 Emergency Stop		1N/O	Red	KEX-G810R-B60	-
		1N/C	Red	KEX-G801R-B60	-
		1N/O + 1N/C	Red	KEX-G811R-B60	-
		2N/O	Red	KEX-G820R-B60	-
		2N/C	Red	KEX-G802R-B60	-

※ The model without voltage display is the model without LED.

Box Switch

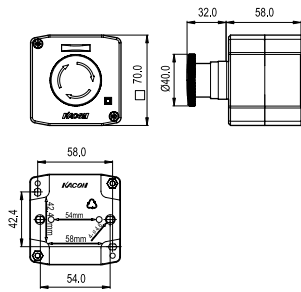
KEX Series

Dimension

Unit : mm

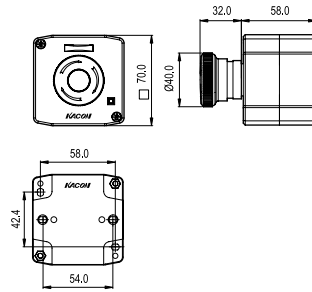
LED Indicator

Emergency Stop - Ø40



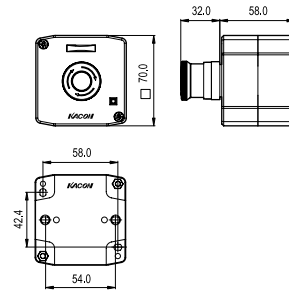
KEX-801R-N40

Emergency Stop - Ø40 Full Guard



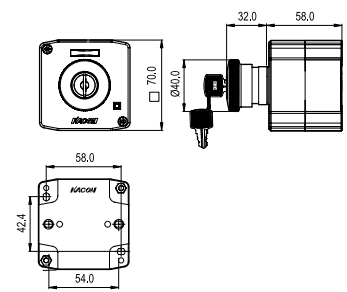
KEX-801R-B40

Emergency Stop - Ø30



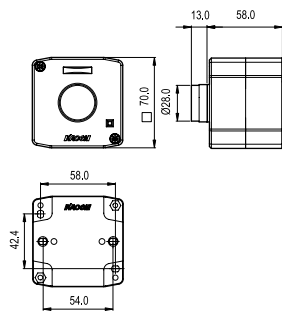
KEX-801R-N30

Emergency Stop - Key



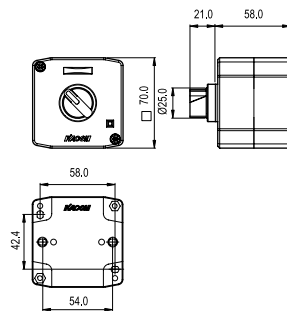
KEX-701R

Push Button



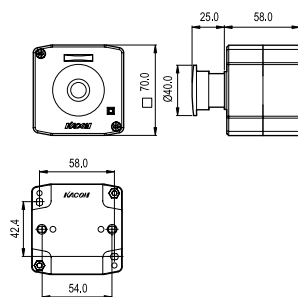
KEX-210

Selector



KEX-410K : 2 Position
KEX-520K : 3 Position

Mushroom Push Button



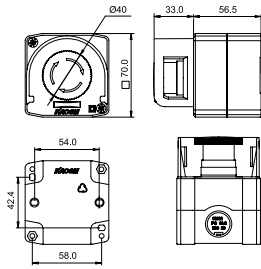
KEX-310-N40

Dimension

Unit : mm

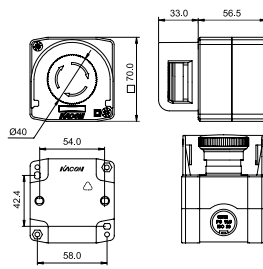
LED Indicator + Guard Type

Emergency Stop - Ø40



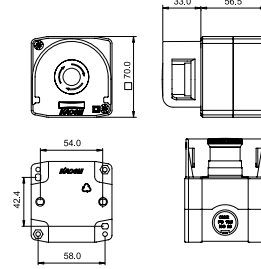
KEX-G801R-N40

Emergency Stop - Ø40 Full Guard



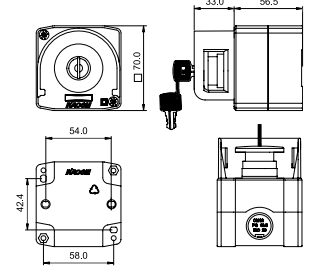
KEX-G801R-B40

Emergency Stop - Ø30



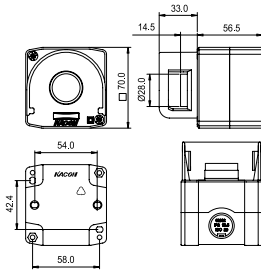
KEX-G801R-N30

Emergency Stop - Key



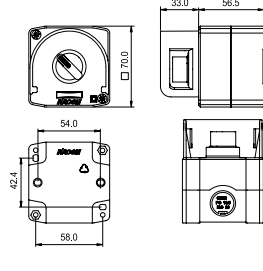
KEX-G701R

Push Button



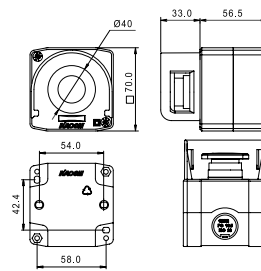
KEX-G210□□

Selector



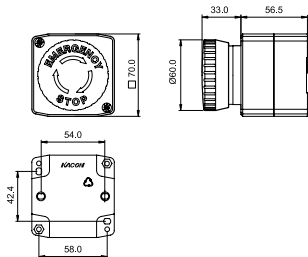
KEX-G410K : 2 position
KEX-G520K : 3 position

Mushroom Push Button



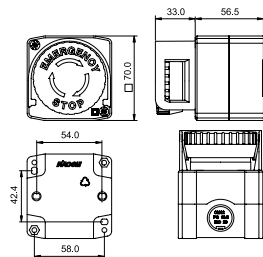
KEX-G310□□-N40

Emergency Stop - Ø60



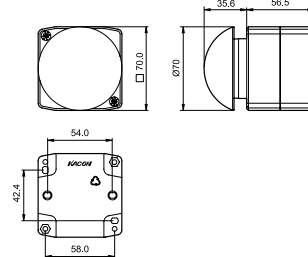
KEX-801R-B60

Emergency Stop - Ø60



KEX-G801R-B60

Mushroom Push Button - Ball



KEX-901R

Box Switch

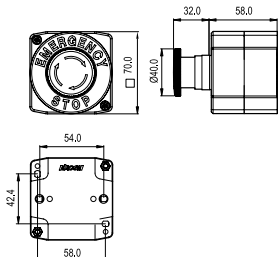
KEX Series

Dimension

Unit : mm

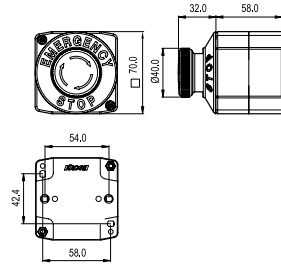
Emergency Stop Name Plate Type

Emergency Stop - Ø40



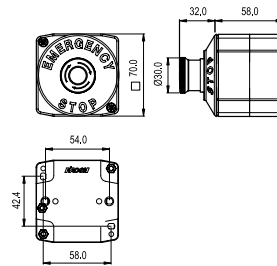
KEX-P801R-N40

Emergency Stop - Ø40 Full Guard



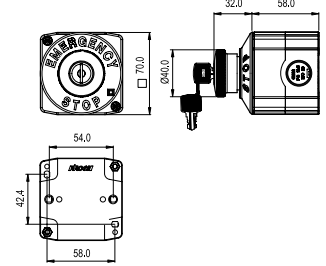
KEX-P801R-B40

Emergency Stop - Ø30



KEX-P801R-N30

Emergency Stop - Key



KEX-P701R

Caution

1. Contact



The contact can be easily and diversely organized according to the purpose.(circuit)
The contact is the cartridge type, which is the same as the K-series contact block, and can be easily removed and mounted.

2. Metal connector applicable

Instead of the provided cable locker (KA-PG 13.5), a metal connector can be used.
Metal connector : #16 (for metal connection part)

Mounting sequence



Separate the product cover, and remove the nuts.



Press a driver or equivalent on the driver groove with proper force to remove the wire connection unit cover.



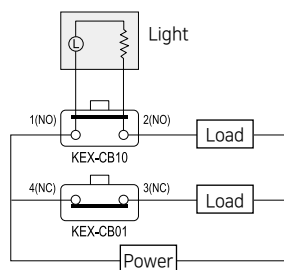
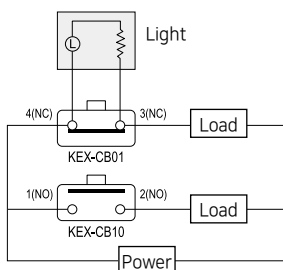
Insert the metal connector with nuts and tighten them.

Note) KA-PG 13.5 can be changed to the metal connector merely by direct connection.

Precautions about the LED Operation Indicator

- The internal circuit of the LED Light depends on the power load type (AC or DC), and must be properly selected (24V ~ 380V).
⇒ The applied voltage, higher than the rating may damage the LED.
- The switch operation status of the LED Light can be checked outside, which allows easy circuit check and fault detection.
- The Light holder in the indicator Light cover is fixed.
Whether the lamp is on or off by the switch ON state can be easily determined by the user by changing the position of the contact block (A contact or B contact).
- The Light terminal does not require additional wiring, because it is connected via the Spring in the indicator cover and the built-in switch terminal bolts. If the LED Light function is not needed, cut the attached Spring..

Wiring Diagram



※ KEX series provides two mounting methods, which allows replacement with other products worldwide.

- Method 1. Horizontal mounting.
The horizontal length is 54.0 mm.
- Method 2. Diagonal mounting.
The diagonal length is 58.0 mm.

