

Box Switch

KEX Series



KEX-801R-N40



KEX-801R-B40



KEX-801R-N30



KEX-701R



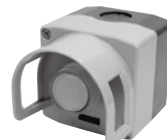
KEX-210



KEX-410K,520K



KEX-310



KEX-G210



KEX-G801R-N40



KEX-G801R-B40



KEX-G801R-N30



KEX-G701R



KEX-G410K,G510K



KEX-G310



KEX-801R-B60



KEX-G801R-B60



KEX-901



KEX-P801R-N40



KEX-P801R-B40



KEX-P701R



KEX-P801R-N30

Human-Machine
Interface

Box Switch

KEX Series

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	3 : Mushroom Push Button	4 : Selector 2 Position
	5 : Selector 3 Position	6 : Emergency Stop - Push / Pull	7 : Emergency Stop - Key
	8 : Emergency Stop - Ø30, Ø40	9 : Emergency Stop - Ball Push	
3 Contact Form	10 : 1N/O	01 : 1N/C	11 : 1N/O + 1N/C
	20 : 2N/O	02 : 2N/C	
4 Color	R : Red	G : Green	Y : Yellow
	W : White	B : Blue	K : Black
5 Rated Voltage	D4 : 24VAC/DC	D1 : 110VDC	A1 : 110VAC
	A2 : 220VAC	A3 : 380VAC	No mark : No Indicator
5 Button size (Only 3,8 Type)	N30 : Ø30	N40 : Ø40	B40 : Ø40 Full Guard

1. Contact Block		2. Base Color			3. Pilot lamp	
Division	Contact	Base	Cove	Model ②	LED	Model ②
KEX-CB10	1N/O	Gray	Yellow	6,7,8,9 Type	Blue Instantaneous Light	Emergency - 6,7,8 Type
KEX-CB01	1N/C	Gray	White Gray	2,3,4,5 Type	Blue Time Delay Light	Others - 2,3,4,5 Type

General Specification

Contact Ratings	Contact Material	Ag alloy (24K Au plate)				
	Rated Current	Voltage	AC 12 Grade	AC 15 Grade	DC 12 Grade	DC 13 Grade
		24V	10A	10A	10A	5A
		110V	10A	5A	2.2A	1.1A
		250V	6A	3A	1.1A	0.6A
		380V	2A	1A	-	-
General Ratings	Maximum Rated Voltage		600V			
	Rated Switching Current		10A			
	Isolation Resistance		Max. 100MΩ (500VDC)			
	Contact Resistance		Max. 20mΩ			
	Dielectric Strength		2,000VAC (50/60Hz for 1 minute.)			
	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 / 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	24VDC
			Green	KEX-210G	110VDC 110VAC
			Yellow	KEX-210Y	220VAC
		1N/C	Red	KEX-201R	24VDC
			Green	KEX-201G	110VDC 110VAC
			Yellow	KEX-201Y	220VAC
		1N/O + 1N/C	Red	KEX-211R	24VDC
			Green	KEX-211G	110VDC 110VAC
			Yellow	KEX-211Y	220VAC
		2N/O	Red	KEX-220R	24VDC
			Green	KEX-220G	110VDC 110VAC
			Yellow	KEX-220Y	220VAC
		2N/C	Red	KEX-202R	24VDC
			Green	KEX-202G	110VDC 110VAC
			Yellow	KEX-202Y	220VAC
Mushroom Momentary Push Button + LED Indicator 	Ø40 Round	1N/O	Red	KEX-310R-N40	24VDC
			Green	KEX-310G-N40	110VDC 110VAC
			Yellow	KEX-310Y-N40	220VAC
		1N/C	Red	KEX-301R-N40	24VDC
			Green	KEX-301G-N40	110VDC 110VAC
			Yellow	KEX-301Y-N40	220VAC
		1N/O + 1N/C	Red	KEX-311R-N40	24VDC
			Green	KEX-311G-N40	110VDC 110VAC
			Yellow	KEX-311Y-N40	220VAC
		2N/O	Red	KEX-320R-N40	24VDC
			Green	KEX-320G-N40	110VDC 110VAC
			Yellow	KEX-320Y-N40	220VAC
		2N/C	Red	KEX-302R-N40	24VDC
			Green	KEX-302G-N40	110VDC 110VAC
			Yellow	KEX-302Y-N40	220VAC

Box Switch

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Product Selection

Operator Type	Shape	Contact Form	Color	Part Number	Rated Voltage
Selector Switch + LED Indicator 	2 Position	1N/O	Black	KEX-410K	24VDC 220VAC
		1N/C	Black	KEX-401K	24VDC 220VAC
		1N/O + 1N/C	Black	KEX-411K	24VDC 220VAC
	3 Position	1N/O + 1N/C	Black	KEX-511K	24VDC 110VDC 110VAC 220VAC
		2N/O	Black	KEX-520K	24VDC 110VDC 110VAC 220VAC
		2N/C	Black	KEX-502K	24VDC 110VDC 110VAC 220VAC
Key Emergency Stop + LED Indicator 	KEY	1N/C	Red	KEX-701R	24VDC 110VAC 220VAC

Product Selection

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

Box Switch

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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	
			Green	KEX-810G-B40	24VDC
			Blue	KEX-810B-B40	110VDC
			Yellow	KEX-810Y-B40	110VAC
			White	KEX-810W-B40	220VAC
			Black	KEX-810K-B40	
		1N/C	Red	KEX-801R-B40	
			Green	KEX-801G-B40	24VDC
			Blue	KEX-801B-B40	110VDC
			Yellow	KEX-801Y-B40	110VAC
			White	KEX-801W-B40	220VAC
			Black	KEX-801K-B40	
		1N/O + 1N/C	Red	KEX-811R-B40	
			Green	KEX-811G-B40	24VDC
			Blue	KEX-811B-B40	110VDC
			Yellow	KEX-811Y-B40	110VAC
			White	KEX-811W-B40	220VAC
			Black	KEX-811K-B40	
		2N/O	Red	KEX-820R-B40	
			Green	KEX-820G-B40	24VDC
			Blue	KEX-820B-B40	110VDC
			Yellow	KEX-820Y-B40	110VAC
			White	KEX-820W-B40	220VAC
			Black	KEX-820K-B40	
		2N/C	Red	KEX-802R-B40	
			Green	KEX-802G-B40	24VDC
			Blue	KEX-802B-B40	110VDC
			Yellow	KEX-802Y-B40	110VAC
			White	KEX-802W-B40	220VAC
			Black	KEX-802K-B40	

Product Selection

Operator Type	Shape	Contact Form	Color	Part Number	Rated Voltage
Emergency Stop + LED Indicator		1N/O	Red	KEX-810R-N30	
			Green	KEX-810G-N30	24VDC
			Blue	KEX-810B-N30	110VDC
			Yellow	KEX-810Y-N30	110VAC
			White	KEX-810W-N30	220VAC
			Black	KEX-810K-N30	
		1N/C	Red	KEX-801R-N30	
			Green	KEX-801G-N30	24VDC
			Blue	KEX-801B-N30	110VDC
			Yellow	KEX-801Y-N30	110VAC
			White	KEX-801W-N30	220VAC
			Black	KEX-801K-N30	
		1N/O + 1N/C	Red	KEX-811R-N30	
			Green	KEX-811G-N30	24VDC
			Blue	KEX-811B-N30	110VDC
			Yellow	KEX-811Y-N30	110VAC
			White	KEX-811W-N30	220VAC
			Black	KEX-811K-N30	
		2N/O	Red	KEX-820R-N30	
			Green	KEX-820G-N30	24VDC
			Blue	KEX-820B-N30	110VDC
			Yellow	KEX-820Y-N30	110VAC
			White	KEX-820W-N30	220VAC
			Black	KEX-820K-N30	
		2N/C	Red	KEX-802R-N30	
			Green	KEX-802G-N30	24VDC
			Blue	KEX-802B-N30	110VDC
			Yellow	KEX-802Y-N30	110VAC
			White	KEX-802W-N30	220VAC
			Black	KEX-802K-N30	

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Product Selection

Operator Type	Shape	Contact Form	Color	Part Number	Rated Voltage
	Ø60 Round	1N/O	Red	KEX-810R-B60	-
		1N/C	Red	KEX-801R-B60	-
		1N/O + 1N/C	Red	KEX-811R-B60	-
		2N/O	Red	KEX-820R-B60	-
		2N/C	Red	KEX-802R-B60	-
	Ball Type	1N/O	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	-
	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	-
	Ø40 Round	1N/O	Red	KEX-P810R-N40	-
		1N/C	Red	KEX-P801R-N40	-
		1N/O + 1N/C	Red	KEX-P811R-N40	-
		2N/O	Red	KEX-P820R-N40	-
		2N/C	Red	KEX-P802R-N40	-

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-B40	-
		1N/C	Red	KEX-P801R-B40	-
		1N/O + 1N/C	Red	KEX-P811R-B40	-
		2N/O	Red	KEX-P820R-B40	-
		2N/C	Red	KEX-P802R-B40	-
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	-
Guard Type Momentary Push Button + LED Indicator 	Ø28 Round	1N/O	Red	KEX-G210R	24VDC
			Green	KEX-G210G	220VAC
		1N/C	Red	KEX-G201R	24VDC
			Green	KEX-G201G	220VAC
		1N/O + 1N/C	Red	KEX-G211R	24VDC
			Green	KEX-G211G	220VAC
		2N/O	Red	KEX-G220R	24VDC
			Green	KEX-G220G	220VAC
		2N/C	Red	KEX-G202R	24VDC
			Green	KEX-G202G	220VAC

Box Switch

KEX Series

Product Selection

Operator Type	Shape	Contact Form	Color	Part Number	Rated Voltage
Guard Type Mushroom Momentary Push Button + LED Indicator	Ø30 Round	1N/O	Red	KEX-G310R-N30	24VDC 220VAC
			Green	KEX-G310G-N30	
		1N/C	Red	KEX-G301R-N30	24VDC 220VAC
			Green	KEX-G301G-N30	
		1N/O + 1N/C	Red	KEX-G311R-N30	24VDC 220VAC
			Green	KEX-G311G-N30	
	Ø40 Round	2N/O	Red	KEX-G320R-N30	24VDC 220VAC
			Green	KEX-G320G-N30	
		2N/C	Red	KEX-G302R-N30	24VDC 220VAC
			Green	KEX-G302G-N30	
		1N/O	Red	KEX-G310R-N40	24VDC 220VAC
			Green	KEX-G310G-N40	
Guard Type Selector Switch	2 Position	1N/C	Red	KEX-G301R-N40	24VDC 220VAC
			Green	KEX-G301G-N40	
		1N/O + 1N/C	Red	KEX-G311R-N40	24VDC 220VAC
	3 Position		Green	KEX-G311G-N40	
		2N/O	Red	KEX-G320R-N40	24VDC 220VAC
			Green	KEX-G320G-N40	
		2N/C	Red	KEX-G302R-N40	24VDC 220VAC
			Green	KEX-G302G-N40	

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 - Ø40 	Ø40 Round	1N/O	Red	KEX-G810R-N40	-
		1N/C	Red	KEX-G801R-N40	-
		1N/O + 1N/C	Red	KEX-G811R-N40	-
		2N/O	Red	KEX-G820R-N40	-
		2N/C	Red	KEX-G802R-N40	-
Guard Type Emergency Full Guard Stop + LED Indicator 	Ø40 Round	1N/O	Red	KEX-G810R-B40	No Indicator 24VDC 110VAC 220VAC
		1N/C	Red	KEX-G801R-B40	
		1N/O + 1N/C	Red	KEX-G811R-B40	
		2N/O	Red	KEX-G820R-B40	
		2N/C	Red	KEX-G802R-B40	
Guard Type Ø60 Emergency Stop 	Ø60 Round	1N/C	Red	KEX-G801R-B60	-

Box Switch

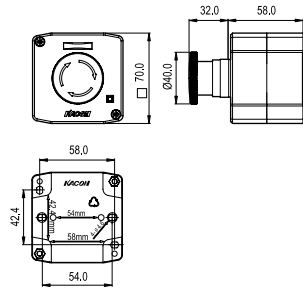
KEX Series

Dimension

Unit : mm

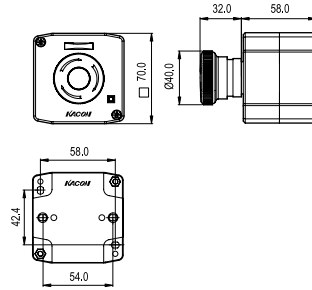
LED Indicator

Emergency Stop - Ø40



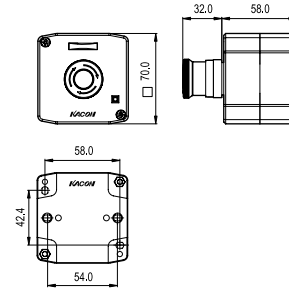
KEX-801R-N40

Emergency Stop - Ø40 Full Guard



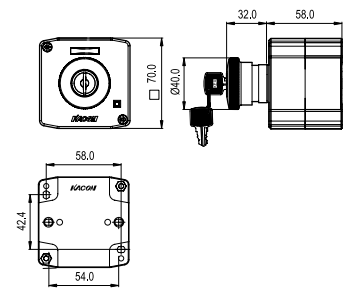
KEX-801R-B40

Emergency Stop - Ø30



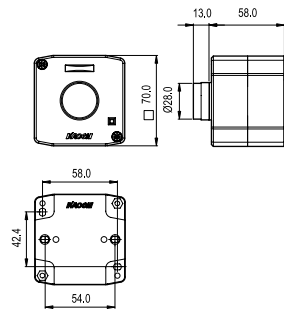
KEX-801R-N30

Emergency Stop - Key



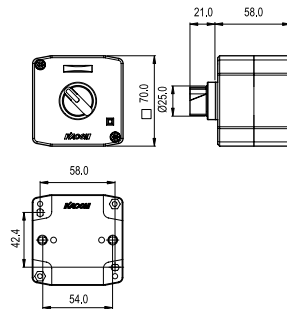
KEX-701R

Push Button



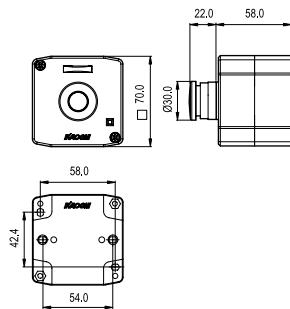
KEX-210

Selector



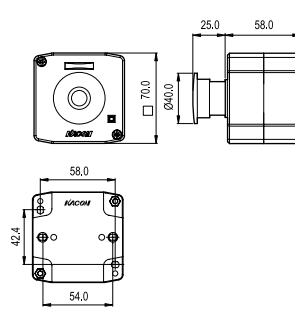
KEX-410K : 2 Pstion
KEX-520K : 3 Position

Mushroom Push Button



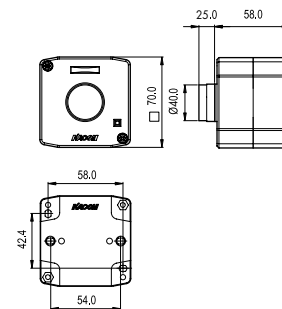
KEX-310-N30

Mushroom Push Button



KEX-310-N40

Mushroom Push Button



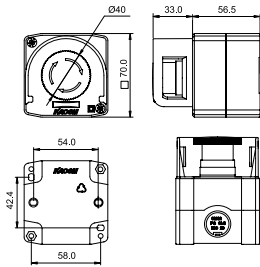
KEX-310-B40

Dimension

Unit : mm

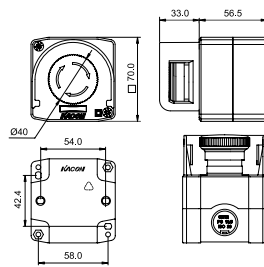
LED Indicator + Guard Type

Emergency Stop - Ø40



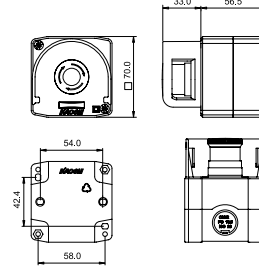
KEX-G801R-N40

Emergency Stop - Ø40 Full Guard



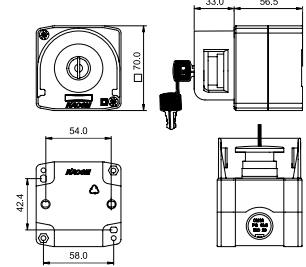
KEX-G801R-B40

Emergency Stop - Ø30



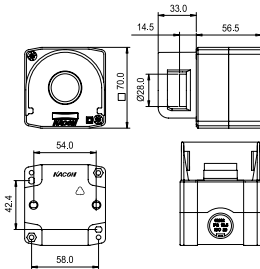
KEX-G801R-N30

Emergency Stop - Key



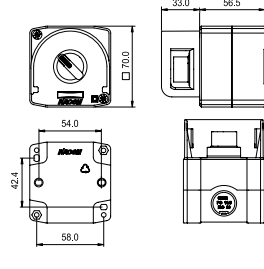
KEX-G701R

Push Button

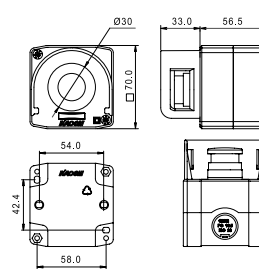


KEX-G210□□

Selector

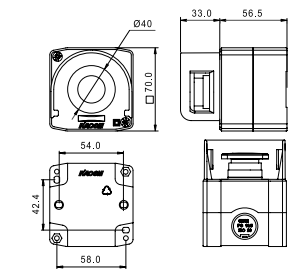
KEX-G410K : 2 position
KEX-G520K : 3 position

Mushroom Push Button



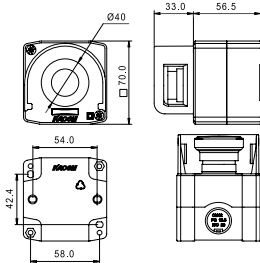
KEX-G310□□-N30

Mushroom Push Button



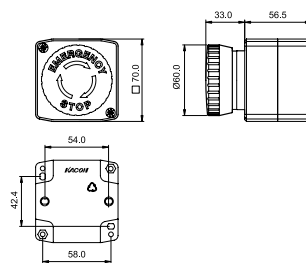
KEX-G310□□-N40

Mushroom Push Button



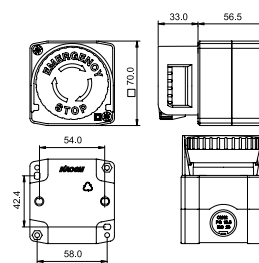
KEX-G310□□-B40

Emergency Stop - Ø60



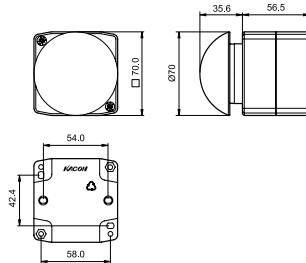
KEX-801R-B60

Emergency Stop - Ø60



KEX-G801R-B60

Mushroom Push Button - Ball



KEX-901R

Box Switch

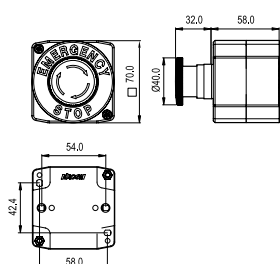
KEX Series

Dimension

Unit : mm

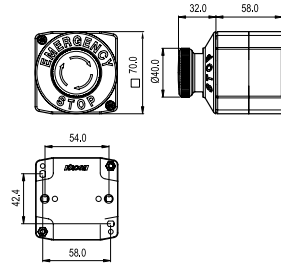
Emergency Stop Name Plate Type

Emergency Stop - Ø40



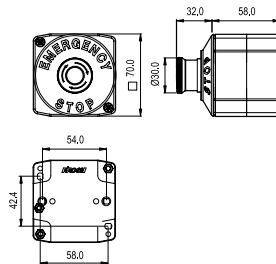
KEX-P801R-N40

Emergency Stop - Ø40 Full Guard



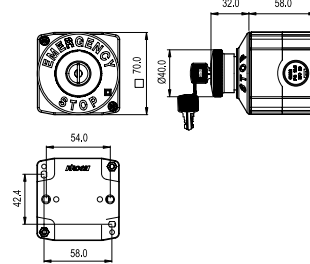
KEX-P801R-B40

Emergency Stop - Ø30



KEX-P801R-N30

Emergency Stop - Key



KEX-P701R

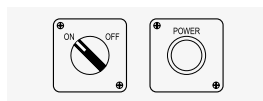
Caution

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. Front side printing



Required patterns can be printed on the cover front (by request).
If the customer provides required design along with the order, it can be printed before delivery (The delivery Data can be delayed according to the required design).

3. 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.

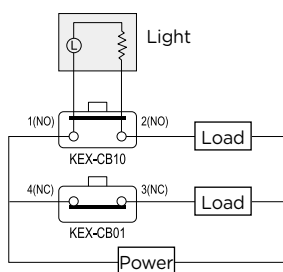
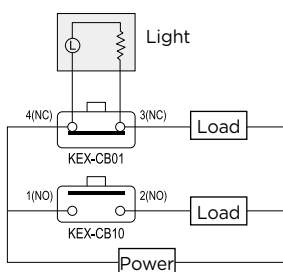
Note) KA-PG 13.5 can be changed to the metal connector merely by direct connection.

Precautions about the LED Operation Indicator

1. 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.
2. The switch operation status of the LED Light can be checked outside, which allows easy circuit check and fault detection.

3. 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).
4. 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.

