

# Control Switch

## K25F K30F Series - Flush Type



Pilot Light



Non-Illuminated  
Push Button Switch



Illuminated  
Push Button Switch



Non-Illuminated  
Mushroom Push Button Switch



Illuminated  
Mushroom Push Button Switch



Key Switch



Non-Illuminated  
Selector Switch



Illuminated  
Selector Switch



Buzzer

### Part Number Description

K	1	2	3	4	5	6
1 Operator Type	25F : Ø25		30F : Ø30			
2 Bezel Type	1 : Pilot Light	2 : Momentary	3 : Maintained		6 : 2 Position Key	
	4 : 2 Position Selector	5 : 3 Position Selector	7 : 3 Position Key		7 : 3 Position Key	
	7 : 3 Position Key	BZ : Buzzer				
3 Illumination & Shape	1 : Non - Illuminated Round		7 : Illumination Round (LED)			
4 Color	R : Red B : Blue		G : Green K : Black (Key)		Y : Yellow W : White	
5 Second Standard	N29 : Ø29		N40 : Ø40			
	S2R : 2 Position Auto Short Lever		S3LR : 3 Position Both Auto Short Lever		S3L : 3 Position Left Auto Short Lever	
	S3R : 3 Position Right Auto Short Lever		L3LR : 3 Position Both Auto Long Lever*		L3L : 3 Position Left Auto Long Lever*	
	L2R : 2 Position Auto Long Lever*		L : Long Lever*			
	L3R : 3 Position Right Auto Long Lever*					
6 Rated voltage	None : No Voltage		12/24VDC		110VDC	
	110VAC**		220VAC			
	380VAC**		440VAC**			

\* Please refer to the product classification diagram for the key switch's key departure location.

※ L2R, L3LR, L3L, L3R, L : Non illuminated type only

※ \*\* The mark is on demand.

## 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	Normal Current	AC LED	20mA			
		DC LED	20mA			
		LED	Min. 50,000hrs			
General Ratings	Dielectric Strength	Between terminal	1,800VAC for 1 minute			
		Body and terminal	2,500VAC for 1 minute			
	Life Cycles	Mechanical	Min. 200,000			
		Electrical	Min. 2,000,000 (Emergency, Selector : Min. 500,000)			
	Degree of Protection	IP54		Selector : IP40		
	Insulation Resistance	100MΩ min.(at 500VDC)				
	Frequency of Alteration	30 time / 1 minute				
	Ambient Temperature	-25°C ~ + 70°C (without no icing)				
	Torque	0.8N·m (8.16kgf·cm)				
	Buzzer	Mounting size	K25F-BZ : Ø25mm		K30F-BZ : Ø30mm	
Rated Voltage		90VAC ~ 240VAC		12VDC ~ 24VDC		
Power consumption		Max. 5W				
Rated power		Max. 1W				
Volume		80dB(Phon) 1m				
Degree of Protection		IP40				
Sound Type		Continuous		Alternating frequency		
Terminal		0.8N·m (8.16kgf·cm)				




☞ All right reserved. Specification subject to change without notice.

\* LED working 50% less than the original brightness after 50000 hours.



# Control Switch

## K25F K30F Series - Flush Type

### Product Selection

	Operator Type	Panel Cutting Hole	Contact Form	Color	Part Number	Rated Voltage
	Illuminated LED Pilot Light	Ø25	-	Red	K25F-17R	12/24VDC 110VDC 110VAC 220VAC
				Green	K25F-17G	
				Yellow	K25F-17Y	
				Blue	K25F-17B	
				White	K25F-17W	
				Black	K25F-17K	
		Ø30	-	Red	K30F-17R	12/24VDC 110VDC 110VAC 220VAC
				Green	K30F-17G	
				Yellow	K30F-17Y	
				Blue	K30F-17B	
				White	K30F-17W	
				Black	K30F-17K	
	Momentary Non-Illuminated Push Button Switch	Ø25	1N/O	Red	K25F-21R	-
				Green	K25F-21G	
				Yellow	K25F-21Y	
				Blue	K25F-21B	
				White	K25F-21W	
				Black	K25F-21K	
		Ø30	1N/O	Red	K30F-21R	-
				Green	K30F-21G	
				Yellow	K30F-21Y	
				Blue	K30F-21B	
				White	K30F-21W	
				Black	K30F-21K	
	Maintained Non-Illuminated Push Button Switch	Ø25	1N/O	Red	K25F-31R	-
				Green	K25F-31G	
				Yellow	K25F-31Y	
				Blue	K25F-31B	
				White	K25F-31W	
				Black	K25F-31K	
		Ø30	1N/O	Red	K30F-31R	-
				Green	K30F-31G	
				Yellow	K30F-31Y	
				Blue	K30F-31B	
				White	K30F-31W	
				Black	K30F-31K	

## Product Selection

	Operator Type	Panel Cutting Hole	Contact Form	Color	Part Number	Rated Voltage	
	Momentary Illuminated LED Push Button Switch	Ø25	1N/O	Red	K25F-27R	12/24VDC 110VDC 110VAC 220VAC	
				Green	K25F-27G		
				Yellow	K25F-27Y		
				Blue	K25F-27B		
				White	K25F-27W		
				Black	K25F-27K		
			Ø30	1N/O	Red	K30F-27R	12/24VDC 110VDC 110VAC 220VAC
					Green	K30F-27G	
					Yellow	K30F-27Y	
					Blue	K30F-27B	
					White	K30F-27W	
					Black	K30F-27K	
	Maintained Illuminated LED Push Button Switch	Ø25	1N/O	Red	K25F-37R	12/24VDC 110VDC 110VAC 220VAC	
				Green	K25F-37G		
				Yellow	K25F-37Y		
				Blue	K25F-37B		
				White	K25F-37W		
				Black	K25F-37K		
			Ø30	1N/O	Red	K30F-37R	12/24VDC 110VDC 110VAC 220VAC
					Green	K30F-37G	
					Yellow	K30F-37Y	
					Blue	K30F-37B	
					White	K30F-37W	
					Black	K30F-37K	

# Control Switch

## K25F K30F Series - Flush Type

### Product Selection

	Operator Type	Panel Cutting Hole	Contact Form	Color	Selector Type	Operator Function	Part Number	Rated Voltage
	Knob Type Non-Illuminated Selector Switch (2 Position)	Ø25	1N/O	Black	Maintained		K25F-41K	-
				Red			K25F-41R	
				Green			K25F-41G	
				Yellow			K25F-41Y	
				Blue			K25F-41B	
		Black	Spring Return		K25F-41K-S2R			
		Red			K25F-41R-S2R			
		Green			K25F-41G-S2R			
		Yellow			K25F-41Y-S2R			
		Blue			K25F-41B-S2R			
	Ø30	1N/O	Black	Maintained		K30F-41K	-	
			Red			K30F-41R		
			Green			K30F-41G		
			Yellow			K30F-41Y		
			Blue			K30F-41B		
Black		Spring Return		K30F-41K-S2R				
Red				K30F-41R-S2R				
Green				K30F-41G-S2R				
Yellow				K30F-41Y-S2R				
Blue				K30F-41B-S2R				
	Lever Type Non-Illuminated Selector Switch (2 Position)	Ø25	1N/O	Black	Maintained		K25F-41K-L	-
				Red			K25F-41R-L	
				Green			K25F-41G-L	
				Yellow			K25F-41Y-L	
				Blue			K25F-41B-L	
		Black	Spring Return		K25F-41K-L2R			
		Red			K25F-41R-L2R			
		Green			K25F-41G-L2R			
		Yellow			K25F-41Y-L2R			
		Blue			K25F-41B-L2R			
	Ø30	1N/O	Black	Maintained		K30F-41K-L	-	
			Red			K30F-41R-L		
			Green			K30F-41G-L		
			Yellow			K30F-41Y-L		
			Blue			K30F-41B-L		
Black		Spring Return		K30F-41K-L2R				
Red				K30F-41R-L2R				
Green				K30F-41G-L2R				
Yellow				K30F-41Y-L2R				
Blue				K30F-41B-L2R				











## Product Selection

	Operator Type	Panel Cutting Hole	Contact Form	Color	Selector Type	Operator Function	Part Number	Rated Voltage	
<p>Knob Type Illuminated LED Selector Switch (2 Position)</p>	Ø25	1N/O		Red	Maintained		K25F-47R	12/24VDC 110VDC 110VAC 220VAC	
				Green			K25F-47G		
				Yellow			K25F-47Y		
				Blue			K25F-47B		
				White			K25F-47W		
				Red	Spring Return		K25F-47R-S2R	12/24VDC 110VDC 110VAC 220VAC	
				Green			K25F-47G-S2R		
				Yellow			K25F-47Y-S2R		
				Blue			K25F-47B-S2R		
				White			K25F-47W-S2R		
	Ø30	1N/O			Red	Maintained		K30F-47R	12/24VDC 110VDC 110VAC 220VAC
					Green			K30F-47G	
					Yellow			K30F-47Y	
					Blue			K30F-47B	
White					K30F-47W				
Red					Spring Return		K30F-47R-S2R	12/24VDC 110VDC 110VAC 220VAC	
Green							K30F-47G-S2R		
Yellow							K30F-47Y-S2R		
Blue							K30F-47B-S2R		
White							K30F-47W-S2R		











# Control Switch

## K25F K30F Series - Flush Type

### Product Selection

	Operator Type	Panel Cutting Hole	Contact Form	Color	Selector Type	Operator Function	Part Number	Rated Voltage
	Knob Type Non-Illuminated Selector Switch (3 Position)	Ø25	2N/O	Black	Maintained		K25F-51K	-
				Red			K25F-51R	
				Green			K25F-51G	
				Yellow			K25F-51Y	
				Blue			K25F-51B	
				Black	Left Auto		K25F-51K-S3L	-
				Red			K25F-51R-S3L	
				Green			K25F-51G-S3L	
				Yellow			K25F-51Y-S3L	
				Blue			K25F-51B-S3L	
				Black	Right Auto		K25F-51K-S3R	-
				Red			K25F-51R-S3R	
				Green			K25F-51G-S3R	
				Yellow			K25F-51Y-S3R	
				Blue			K25F-51B-S3R	
				Black	Both Auto		K25F-51K-S3LR	-
				Red			K25F-51R-S3LR	
				Green			K25F-51G-S3LR	
				Yellow			K25F-51Y-S3LR	
				Blue			K25F-51B-S3LR	
	Lever Type Non-Illuminated Selector Switch (3 Position)	Ø25	2N/O	Black	Maintained		K25F-51K-L	-
				Red			K25F-51R-L	
				Green			K25F-51G-L	
				Yellow			K25F-51Y-L	
				Blue			K25F-51B-L	
				Black	Left Auto		K25F-51K-L3L	-
				Red			K25F-51R-L3L	
				Green			K25F-51G-L3L	
				Yellow			K25F-51Y-L3L	
				Blue			K25F-51B-L3L	
				Black	Right Auto		K25F-51K-L3R	-
				Red			K25F-51R-L3R	
				Green			K25F-51G-L3R	
				Yellow			K25F-51Y-L3R	
				Blue			K25F-51B-L3R	
				Black	Both Auto		K25F-51K-L3LR	-
				Red			K25F-51R-L3LR	
				Green			K25F-51G-L3LR	
				Yellow			K25F-51Y-L3LR	
				Blue			K25F-51B-L3LR	

## Product Selection

	Operator Type	Panel Cutting Hole	Contact Form	Color	Selector Type	Operator Function	Part Number	Rated Voltage
	Knob Type Non-Illuminated Selector Switch (3 Position)	Ø30	2N/O	Black	Maintained		K30F-51K	-
				Red			K30F-51R	
				Green			K30F-51G	
				Yellow			K30F-51Y	
				Blue			K30F-51B	
				Black	Left Auto		K30F-51K-S3L	-
				Red			K30F-51R-S3L	
				Green			K30F-51G-S3L	
				Yellow			K30F-51Y-S3L	
				Blue			K30F-51B-S3L	
				Black	Right Auto		K30F-51K-S3R	-
				Red			K30F-51R-S3R	
				Green			K30F-51G-S3R	
				Yellow			K30F-51Y-S3R	
				Blue			K30F-51B-S3R	
				Black	Both Auto		K30F-51K-S3LR	-
				Red			K30F-51R-S3LR	
				Green			K30F-51G-S3LR	
				Yellow			K30F-51Y-S3LR	
				Blue			K30F-51B-S3LR	
	Lever Type Non-Illuminated Selector Switch (3 Position)	Ø30	2N/O	Black	Maintained		K30F-51K-L	-
				Red			K30F-51R-L	
				Green			K30F-51G-L	
				Yellow			K30F-51Y-L	
				Blue			K30F-51B-L	
				Black	Left Auto		K30F-51K-L3L	-
				Red			K30F-51R-L3L	
				Green			K30F-51G-L3L	
				Yellow			K30F-51Y-L3L	
				Blue			K30F-51B-L3L	
				Black	Right Auto		K30F-51K-L3R	-
				Red			K30F-51R-L3R	
				Green			K30F-51G-L3R	
				Yellow			K30F-51Y-L3R	
				Blue			K30F-51B-L3R	
				Black	Both Auto		K30F-51K-L3LR	-
				Red			K30F-51R-L3LR	
				Green			K30F-51G-L3LR	
				Yellow			K30F-51Y-L3LR	
				Blue			K30F-51B-L3LR	



# Control Switch

## K25F K30F Series - Flush Type

### Product Selection



Operator Type	Panel Cutting Hole	Contact Form	Color	Selector Type	Operator Function	Part Number	Rated Voltage
Illuminated Selector Switch (3 Position)	Ø25	2N/O	Red	Maintained		K25F-57R	12/24VDC 110VDC 110VAC 220VAC
			Green			K25F-57G	
			Yellow			K25F-57Y	
			Blue			K25F-57B	
			White			K25F-57W	
			Red	Left Auto		K25F-57R-S3L	12/24VDC 110VDC 110VAC 220VAC
			Green			K25F-57G-S3L	
			Yellow			K25F-57Y-S3L	
			Blue			K25F-57B-S3L	
			White			K25F-57W-S3L	
	Red	Right Auto		K25F-57R-S3R	12/24VDC 110VDC 110VAC 220VAC		
	Green			K25F-57G-S3R			
	Yellow			K25F-57Y-S3R			
	Blue			K25F-57B-S3R			
	White			K25F-57W-S3R			
	Red	Both Auto		K25F-57R-S3LR	12/24VDC 110VDC 110VAC 220VAC		
	Green			K25F-57G-S3LR			
	Yellow			K25F-57Y-S3LR			
	Blue			K25F-57B-S3LR			
	White			K25F-57W-S3LR			
	Ø30	2N/O	Red	Maintained		K30F-57R	12/24VDC 110VDC 110VAC 220VAC
			Green			K30F-57G	
			Yellow			K30F-57Y	
			Blue			K30F-57B	
			White			K30F-57W	
			Red	Left Auto		K30F-57R-S3L	12/24VDC 110VDC 110VAC 220VAC
			Green			K30F-57G-S3L	
			Yellow			K30F-57Y-S3L	
			Blue			K30F-57B-S3L	
			White			K30F-57W-S3L	
	Red	Right Auto		K30F-57R-S3R	12/24VDC 110VDC 110VAC 220VAC		
	Green			K30F-57G-S3R			
	Yellow			K30F-57Y-S3R			
	Blue			K30F-57B-S3R			
	White			K30F-57W-S3R			
	Red	Both Auto		K30F-57R-S3LR	12/24VDC 110VDC 110VAC 220VAC		
	Green			K30F-57G-S3LR			
	Yellow			K30F-57Y-S3LR			
	Blue			K30F-57B-S3LR			
	White			K30F-57W-S3LR			

## Product Selection

	Operator Type	Panel Cutting Hole	Contact Form	Color	Key Departure Location	Part Number
	Non-Illuminated Key Switch (2 Position)	Ø30			Left, Right	K30F-61K
			1N/O		Right	K30F-61K (R)
					Left	K30F-61K (L)
	Non-Illuminated Key Switch (3 Position)	Ø30			Center	K30F-71K
			2N/O		Right	K30F-71K (R)
					Left	K30F-71K (L)
					Left, Center, Right	K30F-71K (AL)

## Product Selection



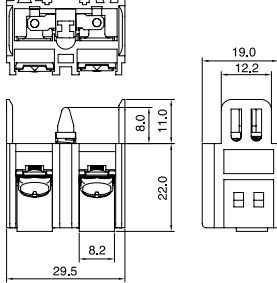
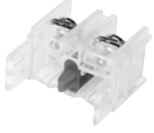

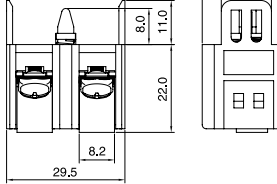


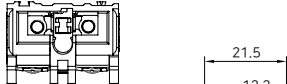
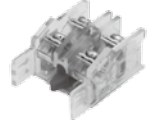

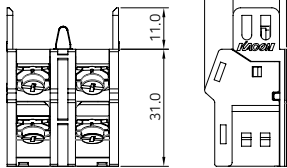
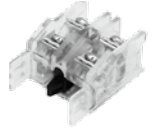

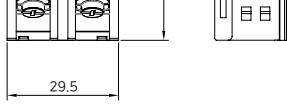


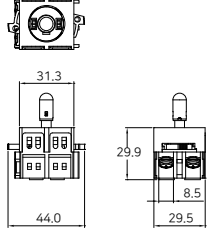
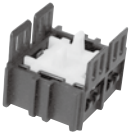
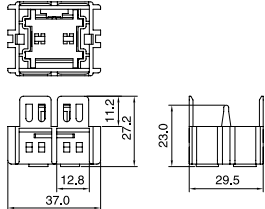

	Operator Type	Panel Cutting Hole	Contact Form	Color	Part Number	Rated Voltage
	Ø29 Non-Illuminated Mushroom Push Button Switch	Ø25		Red	K25F-21R-N29	-
			1N/C	Green	K25F-21G-N29	
				Yellow	K25F-21Y-N29	
		Ø30		Red	K30F-21R-N29	-
			1N/C	Green	K30F-21G-N29	
				Yellow	K30F-21Y-N29	
	Ø40 Non-Illuminated Mushroom Push Button Switch	Ø25		Red	K25F-21R-N40	-
			1N/C	Green	K25F-21G-N40	
				Yellow	K25F-21Y-N40	
		Ø30		Red	K30F-21R-N40	-
			1N/C	Green	K30F-21G-N40	
				Yellow	K30F-21Y-N40	
	Ø29 Illuminated LED Mushroom Push Button Switch	Ø25		Red	K25F-27R-N29	12/24VDC 110VDC 110VAC 220VAC
			1N/C	Green	K25F-27G-N29	
				Yellow	K25F-27Y-N29	
		Ø30		Red	K30F-27R-N29	12/24VDC 110VDC 110VAC 220VAC
			1N/C	Green	K30F-27G-N29	
				Yellow	K30F-27Y-N29	
	Ø40 Illuminated LED Mushroom Push Button Switch	Ø25		Red	K25F-27R-N40	12/24VDC 110VDC 110VAC 220VAC
			1N/C	Green	K25F-27G-N40	
				Yellow	K25F-27Y-N40	
		Ø30		Red	K30F-27R-N40	12/24VDC 110VDC 110VAC 220VAC
			1N/C	Green	K30F-27G-N40	
				Yellow	K30F-27Y-N40	
	Illuminated Buzzer	Ø25	-		K25F-BZ	90VAC ~ 220VAC 12VDC ~ 24VDC
		Ø30	-		K30F-BZ	90VAC ~ 220VAC 12VDC ~ 24VDC

# Control Switch

## K25F K30F Series - Flush Type

### Accessory

Unit : mm

	Operator Type	Contact	Part Number	Rated Voltage	Dimension
	1NO Contact		CBA	-	
	1NC Contact	 ※ IEC60947-5-1 Positive opening type	CBB	-	
	2NO Contact		CBA2	-	
	2NC Contact	 ※ IEC60947-5-1 Positive opening type	CBB2	-	
	1NO + 1NC Contact	 ※ IEC60947-5-1 Positive opening type	CBC	-	
	LED Trans	X1—  —X2	KT-Ⓐ	12/24VDC 110VDC 110/220VAC	
Ⓐ - Color : Red / Green / Yellow / Blue / White					
	Maintain Holder		KAL	-	
	Protection Cover	Ø25	T25-C		
		Ø30	T30-C		

# Accessory

Unit : mm

Operator Type	Part Number	Dimension	Operator Type	Part Number	Dimension				
	Terminal cover with hole (for CBA,CBB)	KP-10		Terminal cover with hole (for CBA2,CBB2, CBC)	KP-30				
	Terminal cover without hole (for CBA,CBB)	KP-11		Terminal cover without hole (for CBA,CBB) (for CBA2,CBB2, CBC)	KP-31				
	Power terminal cover with hole	KP-20		Power terminal cover without hole	KP-21				
	Protection Cover	<p>Ø25 KEG15Ⓐ</p> <table border="1"> <tr> <td>model</td> <td>KEG15</td> </tr> <tr> <td>A</td> <td>Ø25</td> </tr> </table> <p>Ⓐ - Color : Yellow Red Green Amber White</p>	model	KEG15	A	Ø25		Protection Cover	<p>Ø25 KEG35Ⓐ</p> <p>Ⓐ - Color : Yellow Red Green White Blue Black Clea</p>
model	KEG15								
A	Ø25								
	Protection Cover	<p>Ø30 KEG13Ⓐ</p> <p>Ⓐ - Color : Yellow Red Green Amber White</p>							

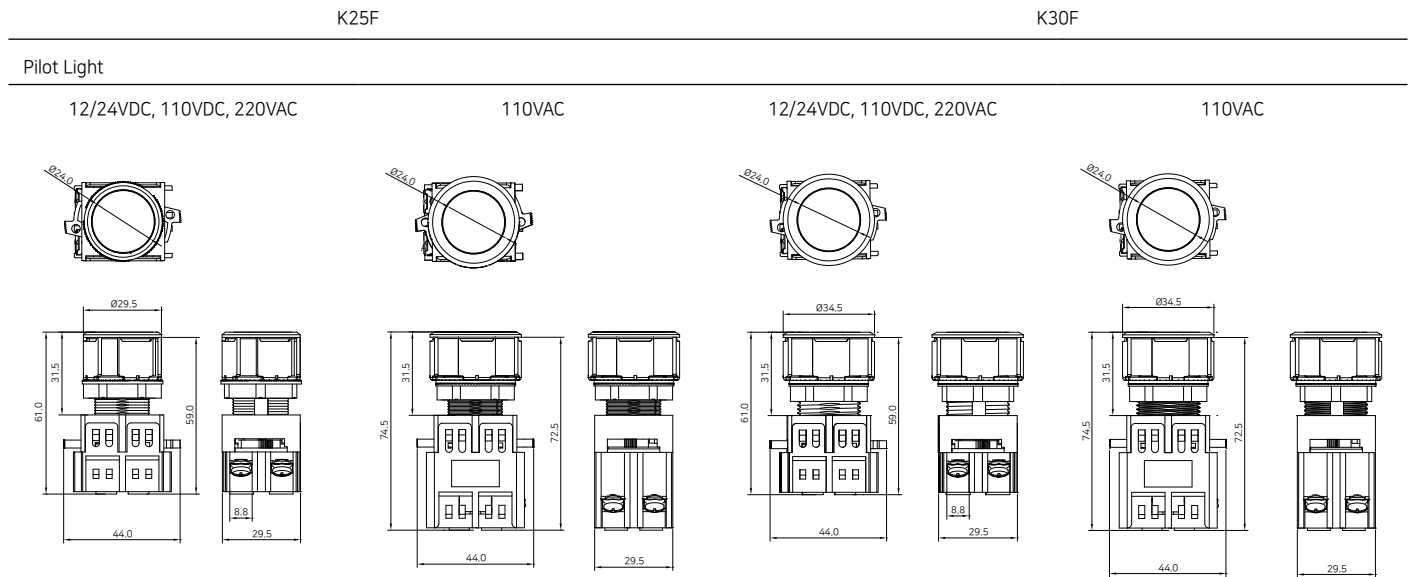


# Control Switch

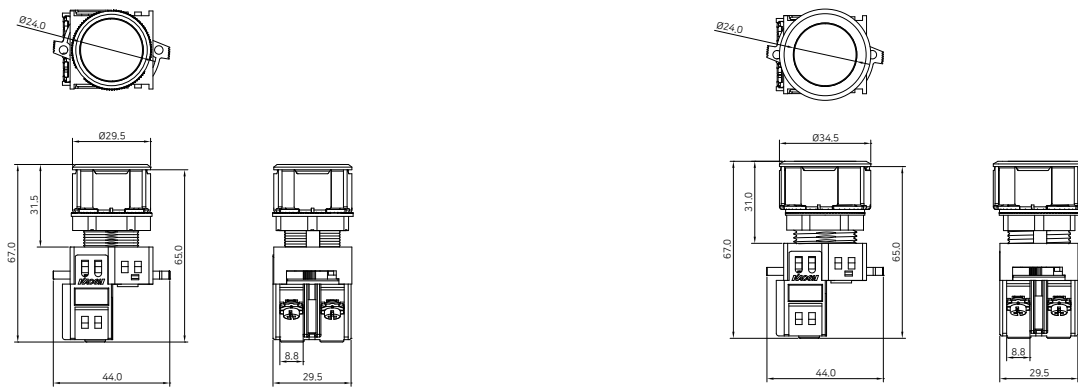
## K25F K30F Series - Flush Type

### Dimension

Unit : mm



### Momentary Non-Illuminated Push Button Switch



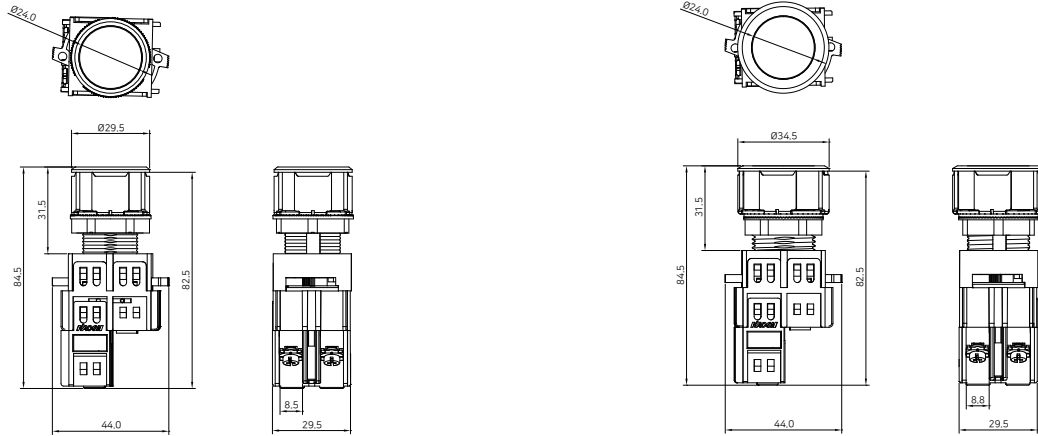
# Dimension

Unit : mm

K25F

K30F

Maintained Non-Illuminated Push Button Switch



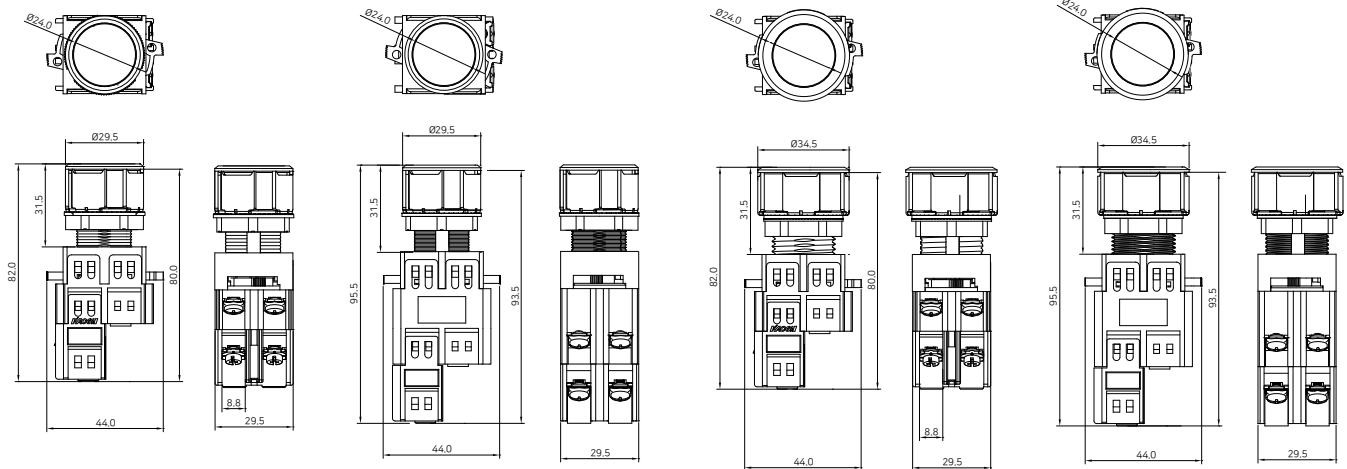
Momentary Illuminated Push Button Switch

12/24VDC, 110VDC, 220VAC

110VAC

12/24VDC, 110VDC, 220VAC

110VAC

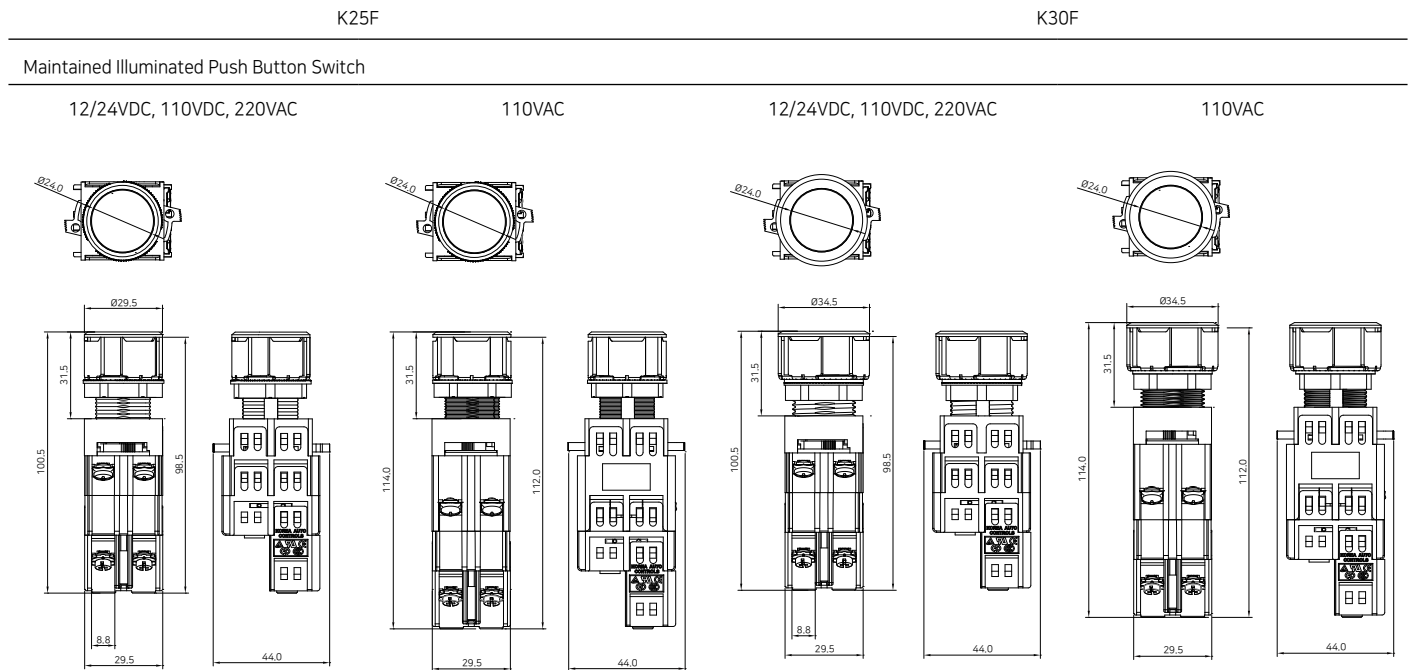


# Control Switch

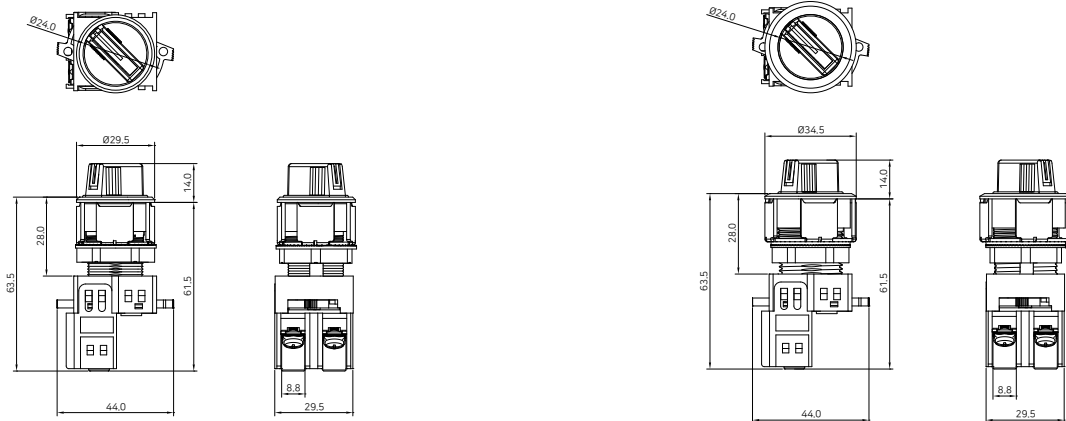
## K25F K30F Series - Flush Type

### Dimension

Unit : mm



### Selector





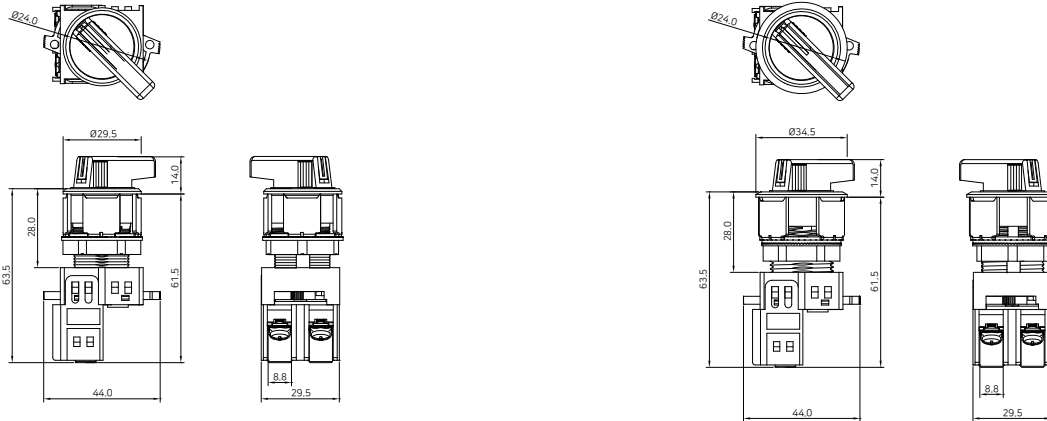
# Dimension

Unit : mm

K25F

K30F

## Lever Type Selector



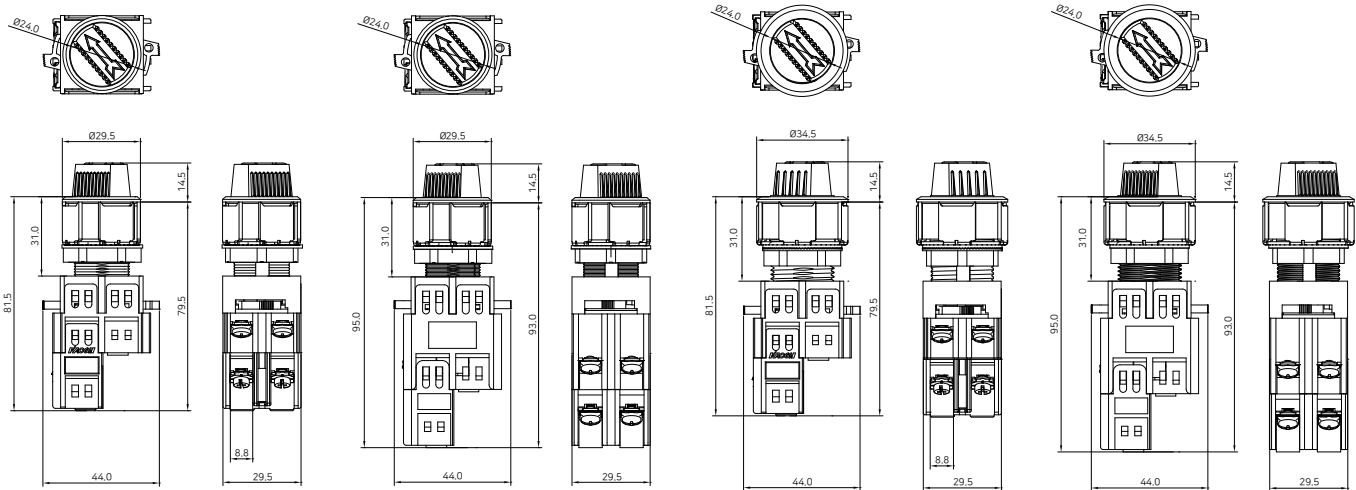
## Illuminated Selector

12/24VDC, 110VDC, 220VAC

110VAC

12/24VDC, 110VDC, 220VAC

110VAC



# Control Switch

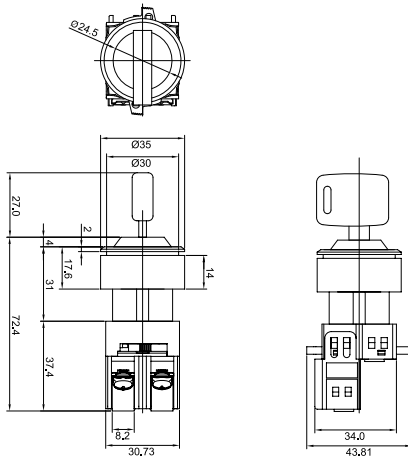
K25F K30F Series - Flush Type

## Dimension

Unit : mm

K30F

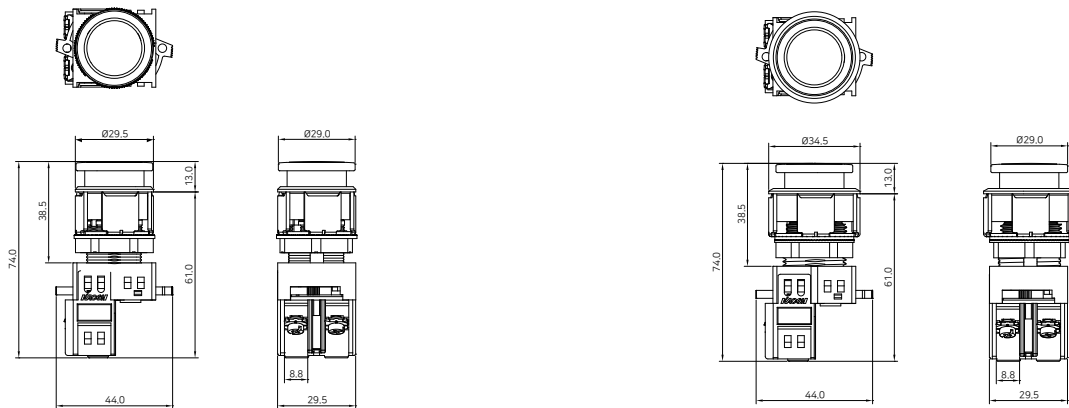
KEY



K25F

K30F

Ø29 Non-Illuminated Mushroom Push Button Switch



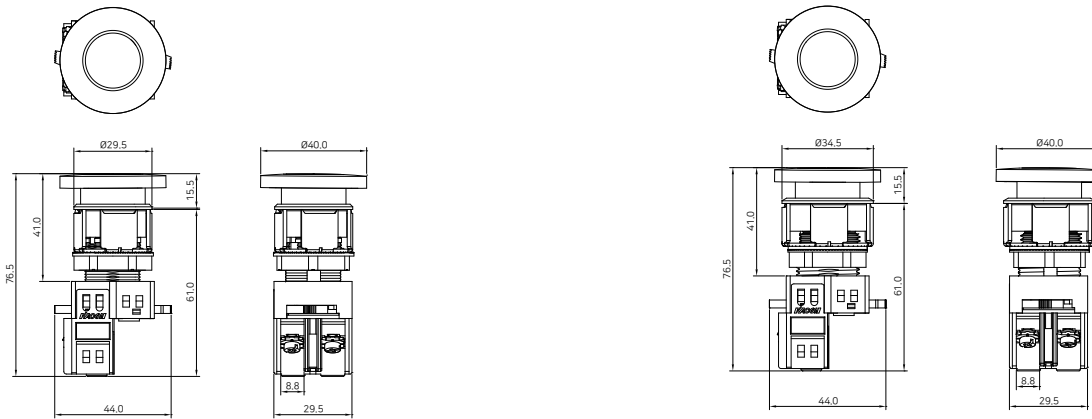
# Dimension

Unit : mm

K25F

K30F

Ø40 Non-Illuminated Mushroom Push Button Switch



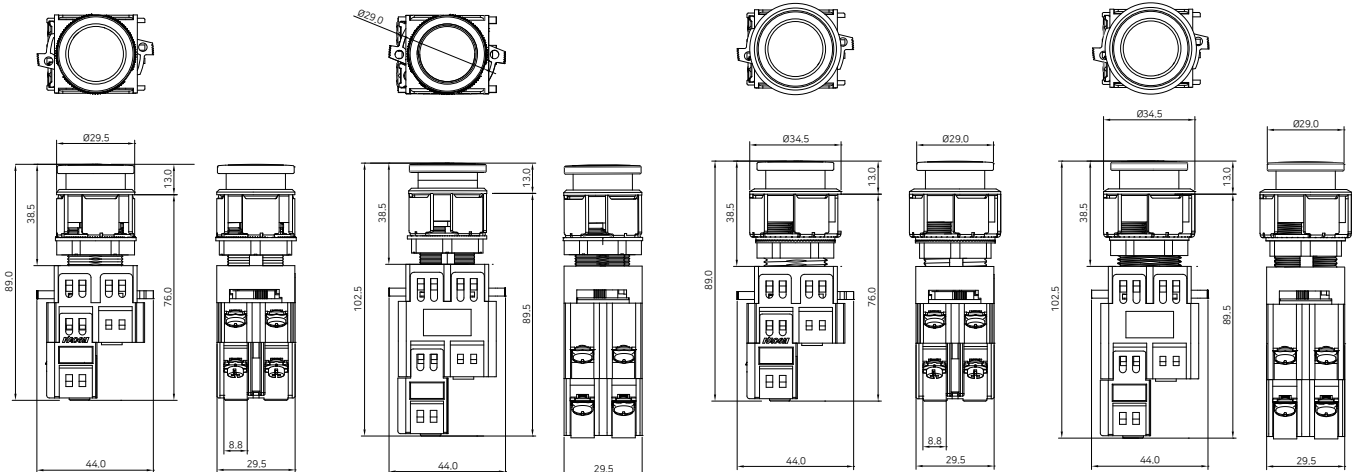
Ø29 Illuminated Mushroom Push Button Switch

12/24VDC, 110VDC, 220VAC

110VAC

12/24VDC, 110VDC, 220VAC

110VAC

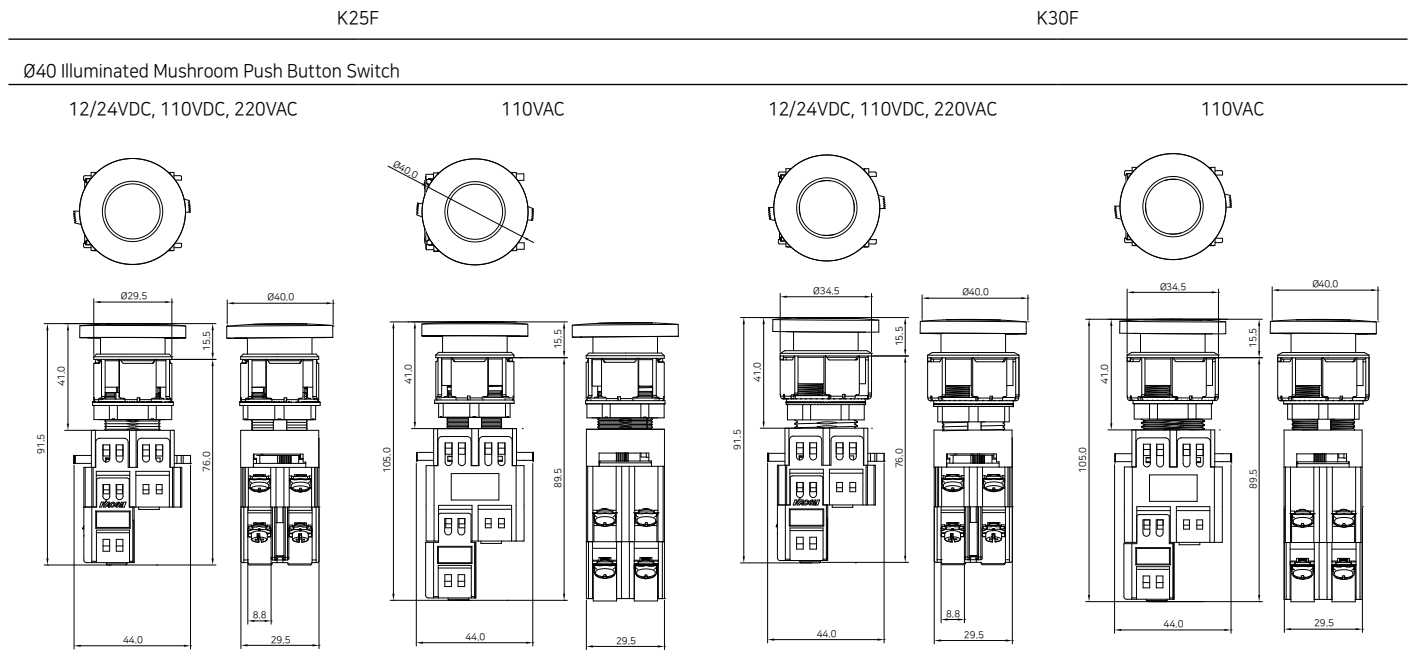


# Control Switch

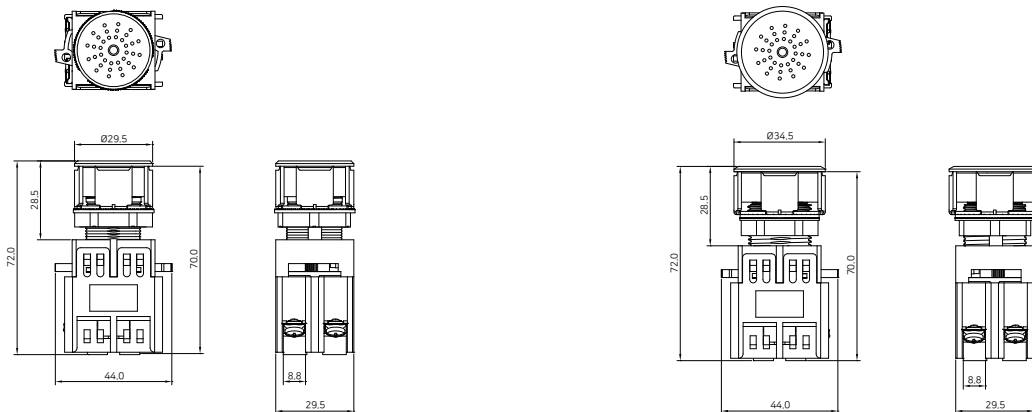
K25F K30F Series - Flush Type

## Dimension

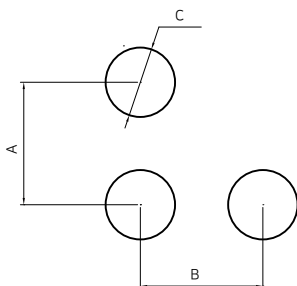
Unit : mm



## Illuminated Buzzer



## Panel Cut-Out & Panel Mounting Dimension



Model	A	B	C
K25F	45	45	25.5
K30F	45	45	30.5
With Terminal cover	50	45	K25F-25.5 K30F-30.5

※ Panel Thickness : 0.5~4mm

## Contact block terminal configuration and diagram

Contact block terminal configuration



Contact block terminal diagram

	1NO	1NC	2NO	2NC	1NO+1NC	2NO+2NC
Non-Illuminated						
Illuminated						

## Key, Selector contact form drawing (basic contact)

2 Position				3 Position					
Contact form	Terminal code	left	Right	Contact form	Terminal code	left	Center	Right	
1a1b	NO		●	1a1b	NO			●	
	NC	●			NC		●	●	
2a	NO		●	2a	NO			●	
	NO		●		NO	●			
2b	NC	●		2b	NC	●	●		
	NC	●			NC		●	●	
2a2b	NO		●	2a2b	NO			●	
	NC	●			NC		●	●	
	NO		●		NO				●
	NC	●			NC		●	●	