



16mm Control Unit

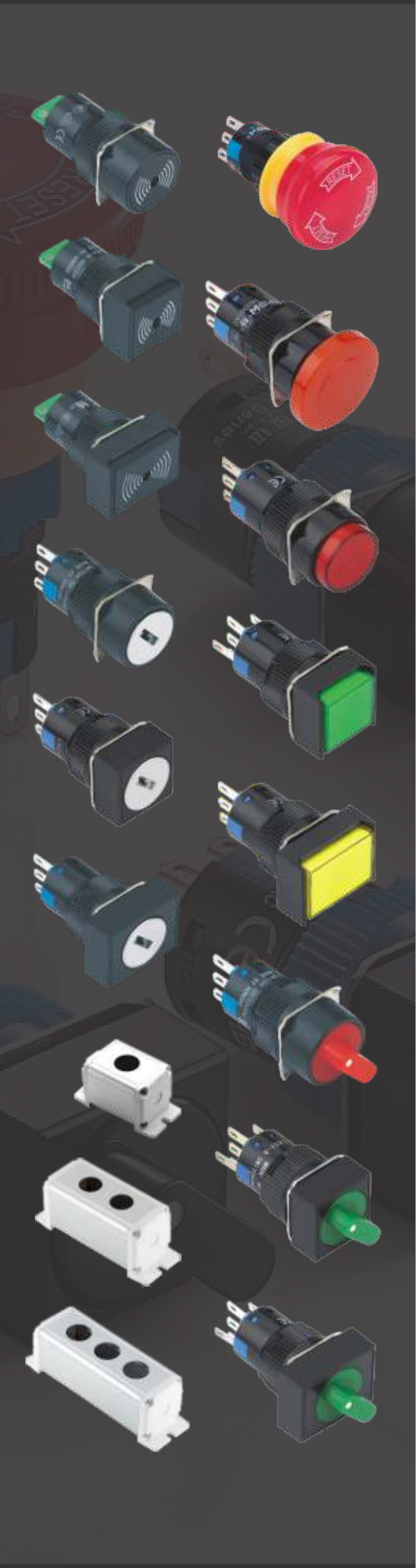


Illustration	Lens Colour	Lamp Voltage	Possible Contact Configuration	Part Number	Contact Diagram
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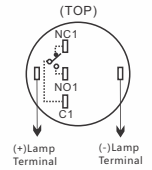
Round Pushbutton

Momentary/Spring Return



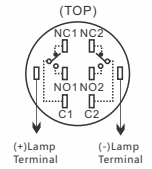
- Red 110
- Green 110
- Yellow 110
- Blue 110
- White 110
- Black 110

1NC		90P1-LAS1-AY-11/R/P
1NC		90P1-LAS1-AY-11/G/P
1NC		90P1-LAS1-AY-11/Y/P
1NC		90P1-LAS1-AY-11/B/P
1NC		90P1-LAS1-AY-11/W/P
1NC		90P1-LAS1-AY-11/N/P

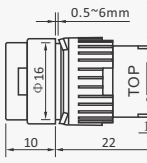


- Red 210
- Green 210
- Yellow 210
- Blue 210
- White 210
- Black 210

2NC	1NO 1NC	90P1-LAS1-AY-22/R/P
2NC	1NO 1NC	90P1-LAS1-AY-22/G/P
2NC	1NO 1NC	90P1-LAS1-AY-22/Y/P
2NC	1NO 1NC	90P1-LAS1-AY-22/B/P
2NC	1NO 1NC	90P1-LAS1-AY-22/W/P
2NC	1NO 1NC	90P1-LAS1-AY-22/N/P

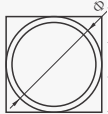
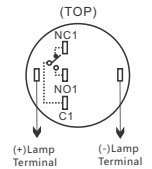


Maintained/Latching



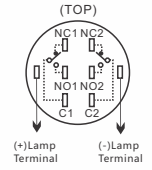
- Red 110
- Green 110
- Yellow 110
- Blue 110
- White 110
- Black 110

1NC		90P1-LAS1-AY-11Z/R/P
1NC		90P1-LAS1-AY-11Z/G/P
1NC		90P1-LAS1-AY-11Z/Y/P
1NC		90P1-LAS1-AY-11Z/B/P
1NC		90P1-LAS1-AY-11Z/W/P
1NC		90P1-LAS1-AY-11Z/N/P



- Red 210
- Green 210
- Yellow 210
- Blue 210
- White 210
- Black 210

2NC	1NO 1NC	90P1-LAS1-AY-22Z/R/P
2NC	1NO 1NC	90P1-LAS1-AY-22Z/G/P
2NC	1NO 1NC	90P1-LAS1-AY-22Z/Y/P
2NC	1NO 1NC	90P1-LAS1-AY-22Z/B/P
2NC	1NO 1NC	90P1-LAS1-AY-22Z/W/P
2NC	1NO 1NC	90P1-LAS1-AY-22Z/N/P



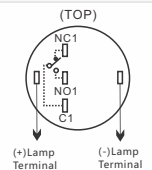
Round Illuminated Pushbutton

Momentary/Spring Return



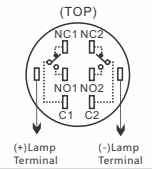
- Red 110
- Green 110
- Yellow 110
- Blue 110
- White 110

1NC		90P1-LAS1-AY-11/R/024/P
1NC		90P1-LAS1-AY-11/G/024/P
1NC		90P1-LAS1-AY-11/Y/024/P
1NC		90P1-LAS1-AY-11/B/024/P
1NC		90P1-LAS1-AY-11/W/024/P

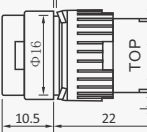


- Red 210
- Green 210
- Yellow 210
- Blue 210
- White 210

2NC	1NO 1NC	90P1-LAS1-AY-22/R/024/P
2NC	1NO 1NC	90P1-LAS1-AY-22/G/024/P
2NC	1NO 1NC	90P1-LAS1-AY-22/Y/024/P
2NC	1NO 1NC	90P1-LAS1-AY-22/B/024/P
2NC	1NO 1NC	90P1-LAS1-AY-22/W/024/P

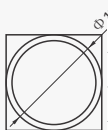
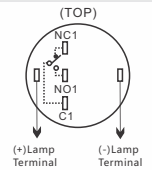


Maintained/Latching



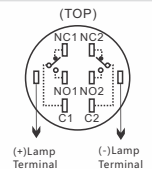
- Red 110
- Green 110
- Yellow 110
- Blue 110
- White 110

1NC		90P1-LAS1-AY-11Z/R/024/P
1NC		90P1-LAS1-AY-11Z/G/024/P
1NC		90P1-LAS1-AY-11Z/Y/024/P
1NC		90P1-LAS1-AY-11Z/B/024/P
1NC		90P1-LAS1-AY-11Z/W/024/P



- Red 210
- Green 210
- Yellow 210
- Blue 210
- White 210

2NC	1NO 1NC	90P1-LAS1-AY-22Z/R/024/P
2NC	1NO 1NC	90P1-LAS1-AY-22Z/G/024/P
2NC	1NO 1NC	90P1-LAS1-AY-22Z/Y/024/P
2NC	1NO 1NC	90P1-LAS1-AY-22Z/B/024/P
2NC	1NO 1NC	90P1-LAS1-AY-22Z/W/024/P



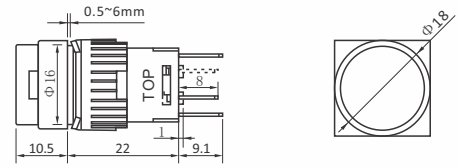
IP65 RoHS CE

Illustration	Lens Colour	Lamp Voltage	Part Number	Outer Dimensions
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Round Pilot Light



● Red	24V	90P1-LAS1-AY-D/R/024/P
● Green	24V	90P1-LAS1-AY-D/G/024/P
● Yellow	24V	90P1-LAS1-AY-D/Y/024/P
● Blue	24V	90P1-LAS1-AY-D/B/024/P
○ White	24V	90P1-LAS1-AY-D/W/024/P



Round Buzzer



● Black	24V	90P1-LAS1-AY-B/024/GT
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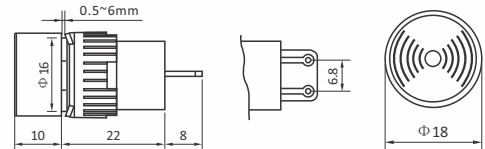


Illustration	Lamp Voltage	Switching Position	Contact Configuration			Part Number	Outer Dimension
			Left	Center	Right		

Round Selector Switch

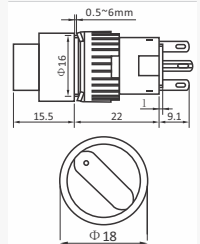


2 Position: Stay Put 90°

-	I - II	NO NC	-	NO NC	90P1-LAS1-AY-11X/21/N/P
-	I - II	NO NC [L] C [R] C	-	NO NC [L] C [R] C	90P1-LAS1-AY-22X/21/N/P

3 Position: Stay Put 45°

-	I - 0 - II	NO NC [L] C [R] C	NO NC [L] C [R] C	NO NC [L] C [R] C	90P1-LAS1-AY-22X/31D/N/P
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Round Illuminated Selector Switch

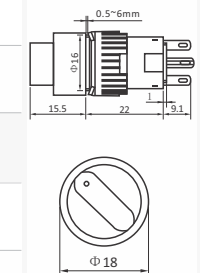


2 Position: Stay Put 90°

● 24V	I - II	NO NC	-	NO NC	90P1-LAS1-AY-11X/21/G/024/P
● 24V	I - II	NO NC [L] C [R] C	-	NO NC [L] C [R] C	90P1-LAS1-AY-22X/21/G/024/P

3 Position: Stay Put 45°

● 24V	I - 0 - II	NO NC [L] C [R] C	NO NC [L] C [R] C	NO NC [L] C [R] C	90P1-LAS1-AY-22X/31D/G/024/P
● 24V	I - 0 - II	NO NC [L] C [R] C	NO NC [L] C [R] C	NO NC [L] C [R] C	90P1-LAS1-AY-22X/31D/R/024/P



Round Key Switch



2 Position: Stay Put 90°

-	I - II	NO NC	-	NO NC	90P1-LAS1-AY-11Y/21/P
-	I - II	NO NC [L] C [R] C	-	NO NC [L] C [R] C	90P1-LAS1-AY-22X/21/P

3 Position: Stay Put 45°

-	I - 0 - II	NO NC [L] C [R] C	NO NC [L] C [R] C	NO NC [L] C [R] C	90P1-LAS1-AY-22Y/31D/P
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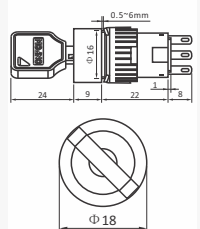




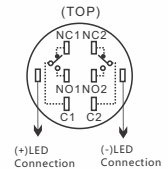
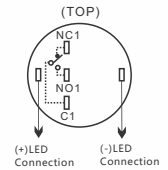
Illustration	Lens Colour	Lamp Voltage	Possible Contact Configuration			Part Number	Contact Diagram
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Square Pushbutton



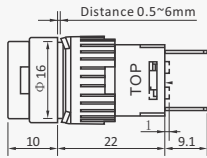
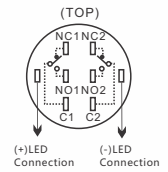
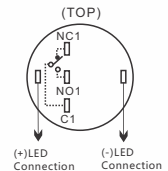
Momentary/Spring Return

Red		1CO	1NO	1NC		90P1-LAS1-AF-11/R/P
Green		1CO	1NO	1NC		90P1-LAS1-AF-11/G/P
Yellow		1CO	1NO	1NC		90P1-LAS1-AF-11/Y/P
Blue		1CO	1NO	1NC		90P1-LAS1-AF-11/B/P
White		1CO	1NO	1NC		90P1-LAS1-AF-11/W/P
Black		1CO	1NO	1NC		90P1-LAS1-AF-11/N/P
Red		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22/R/P
Green		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22/G/P
Yellow		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22/Y/P
Blue		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22/B/P
White		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22/W/P
Black		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22/N/P



Maintained/Latching

Red		1CO	1NO	1NC		90P1-LAS1-AF-11Z/R/P
Green		1CO	1NO	1NC		90P1-LAS1-AF-11Z/G/P
Yellow		1CO	1NO	1NC		90P1-LAS1-AF-11Z/Y/P
Blue		1CO	1NO	1NC		90P1-LAS1-AF-11Z/B/P
White		1CO	1NO	1NC		90P1-LAS1-AF-11Z/W/P
Black		1CO	1NO	1NC		90P1-LAS1-AF-11Z/N/P
Red		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22Z/R/P
Green		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22Z/G/P
Yellow		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22Z/Y/P
Blue		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22Z/B/P
White		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22Z/W/P
Black		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22Z/N/P

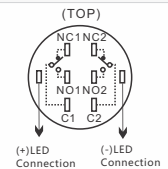
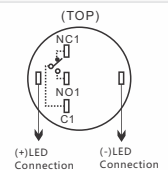


Square Illuminated Pushbutton



Momentary/Spring Return

Red	24V	1CO	1NO	1NC		90P1-LAS1-AF-11/R/024/P
Green	24V	1CO	1NO	1NC		90P1-LAS1-AF-11/G/024/P
Yellow	24V	1CO	1NO	1NC		90P1-LAS1-AF-11/Y/024/P
Blue	24V	1CO	1NO	1NC		90P1-LAS1-AF-11/B/024/P
White	24V	1CO	1NO	1NC		90P1-LAS1-AF-11/W/024/P
Red	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22/R/024/P
Green	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22/G/024/P
Yellow	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22/Y/024/P
Blue	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22/B/024/P
White	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22/W/024/P



Maintained/Latching

Red	24V	1CO	1NO	1NC		90P1-LAS1-AF-11Z/R/024/P
Green	24V	1CO	1NO	1NC		90P1-LAS1-AF-11Z/G/024/P
Yellow	24V	1CO	1NO	1NC		90P1-LAS1-AF-11Z/Y/024/P
Blue	24V	1CO	1NO	1NC		90P1-LAS1-AF-11Z/B/024/P
White	24V	1CO	1NO	1NC		90P1-LAS1-AF-11Z/W/024/P
Red	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22Z/R/024/P
Green	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22Z/G/024/P
Yellow	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22Z/Y/024/P
Blue	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22Z/B/024/P
White	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AF-22Z/W/024/P

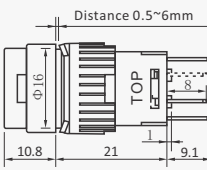
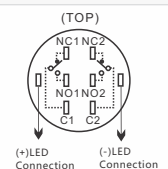
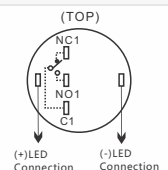


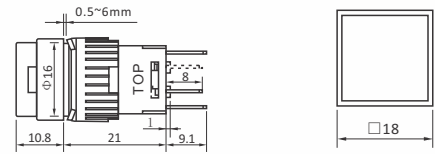


Illustration	Lens Colour	Lamp Voltage	Part Number	Outer Dimensions
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Square Pilot Light



Red	24V	90P1-LAS1-AF-D/R/024/P
Green	24V	90P1-LAS1-AF-D/G/024/P
Yellow	24V	90P1-LAS1-AF-D/Y/024/P
Blue	24V	90P1-LAS1-AF-D/B/024/P
White	24V	90P1-LAS1-AF-D/W/024/P



Square Buzzer



Black	24V	90P1-LAS1-AF-B/024/GT
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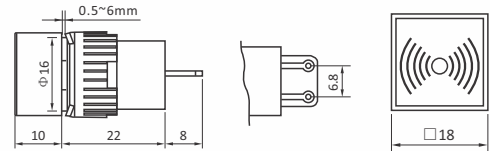


Illustration	Lamp Voltage	Switching Position	Contact Configuration			Part Number	Outer Dimension
			Left	Center	Right		

Square Selector Switch

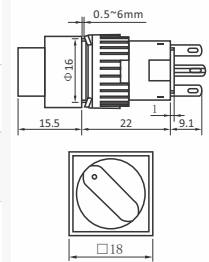
2 Position: Stay Put 90°



-	I - II	NO NC	-	NO NC	90P1-LAS1-AF-11X/21/N/P	
-	I - II	NO NC [L] C	NO NC [R] C	NO NC [L] C	NO NC [R] C	90P1-LAS1-AF-22X/21/N/P

3 Position: Stay Put 45°

-	I - 0 - II	NO NC [L] C	NO NC [R] C	NO NC [L] C	NO NC [R] C	NO NC [L] C	NO NC [R] C	90P1-LAS1-AF-22X/31D/N/P
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Square Illuminated Selector Switch

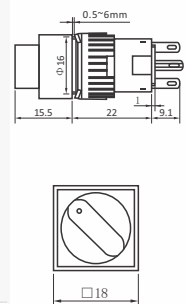
2 Position: Stay Put 90°



Green	24V	I - II	NO NC	-	NO NC	90P1-LAS1-AF-11X/21/G/024/P	
Green	24V	I - II	NO NC [L] C	NO NC [R] C	NO NC [L] C	NO NC [R] C	90P1-LAS1-AF-22X/21/G/024/P
Red	24V	I - II	NO NC	-	NO NC	90P1-LAS1-AF-11X/21/R/024/P	
Red	24V	I - II	NO NC [L] C	NO NC [R] C	NO NC [L] C	NO NC [R] C	90P1-LAS1-AF-22X/21/R/024/P

3 Position: Stay Put 45°

Green	24V	I - 0 - II	NO NC [L] C	NO NC [R] C	NO NC [L] C	NO NC [R] C	NO NC [L] C	NO NC [R] C	90P1-LAS1-AF-22X/31D/G/024/P
Red	24V	I - 0 - II	NO NC [L] C	NO NC [R] C	NO NC [L] C	NO NC [R] C	NO NC [L] C	NO NC [R] C	90P1-LAS1-AF-22X/31D/R/024/P



Square Key Switch

2 Position: Stay Put 90°



-	I - II	NO NC	-	NO NC	90P1-LAS1-AF-11Y/21/P	
-	I - II	NO NC [L] C	NO NC [R] C	NO NC [L] C	NO NC [R] C	90P1-LAS1-AF-22X/21/P

3 Position: Stay Put 45°

-	I - 0 - II	NO NC [L] C	NO NC [R] C	NO NC [L] C	NO NC [R] C	NO NC [L] C	NO NC [R] C	90P1-LAS1-AF-22Y/31D/P
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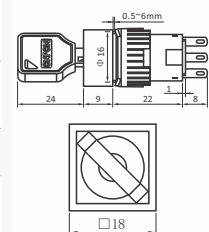




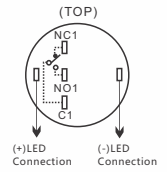
Illustration	Lens Colour	Lamp Voltage	Possible Contact Configuration			Part Number	Contact Diagram
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Rectangle Pushbutton

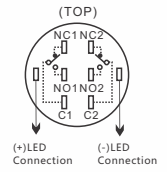
Momentary/Spring Return



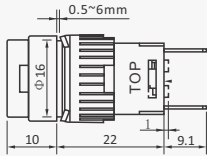
■ Red		1CO	1NO	1NC		90P1-LAS1-AJ-11/R/P
■ Green		1CO	1NO	1NC		90P1-LAS1-AJ-11/G/P
■ Yellow		1CO	1NO	1NC		90P1-LAS1-AJ-11/Y/P
■ Blue		1CO	1NO	1NC		90P1-LAS1-AJ-11/B/P
 White		1CO	1NO	1NC		90P1-LAS1-AJ-11/W/P
■ Black		1CO	1NO	1NC		90P1-LAS1-AJ-11/N/P



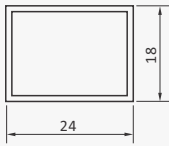
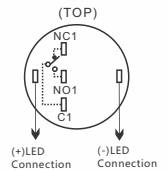
■ Red		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22/R/P
■ Green		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22/G/P
■ Yellow		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22/Y/P
■ Blue		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22/B/P
 White		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22/W/P
■ Black		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22/N/P



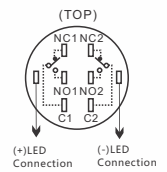
Maintained/Latching



■ Red		1CO	1NO	1NC		90P1-LAS1-AJ-11Z/R/P
■ Green		1CO	1NO	1NC		90P1-LAS1-AJ-11Z/G/P
■ Yellow		1CO	1NO	1NC		90P1-LAS1-AJ-11Z/Y/P
■ Blue		1CO	1NO	1NC		90P1-LAS1-AJ-11Z/B/P
 White		1CO	1NO	1NC		90P1-LAS1-AJ-11Z/W/P
■ Black		1CO	1NO	1NC		90P1-LAS1-AJ-11Z/N/P



■ Red		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22Z/R/P
■ Green		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22Z/G/P
■ Yellow		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22Z/Y/P
■ Blue		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22Z/B/P
 White		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22Z/W/P
■ Black		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22Z/N/P

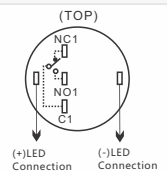


Rectangle Illuminated Pushbutton

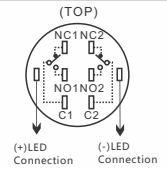
Momentary/Spring Return



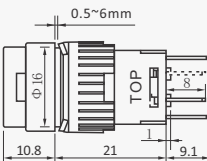
■ Red	24V	1CO	1NO	1NC		90P1-LAS1-AJ-11/R/024/P
■ Green	24V	1CO	1NO	1NC		90P1-LAS1-AJ-11/G/024/P
■ Yellow	24V	1CO	1NO	1NC		90P1-LAS1-AJ-11/Y/024/P
■ Blue	24V	1CO	1NO	1NC		90P1-LAS1-AJ-11/B/024/P
 White	24V	1CO	1NO	1NC		90P1-LAS1-AJ-11/W/024/P



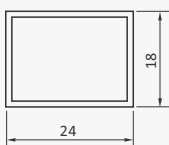
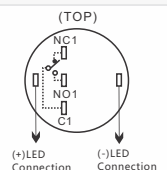
■ Red	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22/R/024/P
■ Green	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22/G/024/P
■ Yellow	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22/Y/024/P
■ Blue	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22/B/024/P
 White	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22/W/024/P



Maintained/Latching



■ Red	24V	1CO	1NO	1NC		90P1-LAS1-AJ-11Z/R/024/P
■ Green	24V	1CO	1NO	1NC		90P1-LAS1-AJ-11Z/G/024/P
■ Yellow	24V	1CO	1NO	1NC		90P1-LAS1-AJ-11Z/Y/024/P
■ Blue	24V	1CO	1NO	1NC		90P1-LAS1-AJ-11Z/B/024/P
 White	24V	1CO	1NO	1NC		90P1-LAS1-AJ-11Z/W/024/P



■ Red	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22Z/R/024/P
■ Green	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22Z/G/024/P
■ Yellow	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22Z/Y/024/P
■ Blue	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22Z/B/024/P
 White	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AJ-22Z/W/024/P

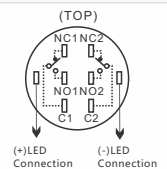


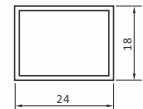
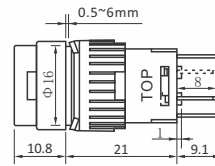


Illustration	Lens Colour	Lamp Voltage	Part Number	Outer Dimension
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Rectangle Pilot Light



■ Red	24V	90P1-LAS1-AJ-D/R/024/P
■ Green	24V	90P1-LAS1-AJ-D/G/024/P
■ Yellow	24V	90P1-LAS1-AJ-D/Y/024/P
■ Blue	24V	90P1-LAS1-AJ-D/B/024/P
■ White	24V	90P1-LAS1-AJ-D/W/024/P



Rectangle Buzzer



■ Black	24V	90P1-LAS1-AJ-B/024/GT
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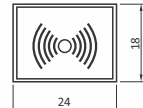
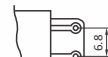
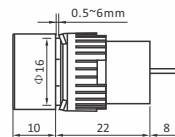


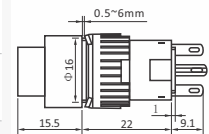
Illustration	Lamp Voltage	Switching Position	Contact Configuration			Part Number	Outer Dimension
			Left	Center	Right		

Rectangle Selector Switch

2 Position: Stay Put 90°

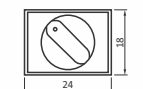


-	I - II		-		90P1-LAS1-AJ-11X/21/N/P
-	I - II		-		90P1-LAS1-AJ-22X/21/N/P



3 Position: Stay Put 45°

-	I - 0 - II							90P1-LAS1-AJ-22X/31D/N/P
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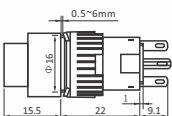


Rectangle Illuminated Selector Switch

2 Position: Stay Put 90°

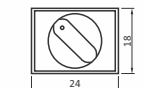


■ 24V	I - II		-		90P1-LAS1-AJ-11X/21/G/024/P
■ 24V	I - II		-		90P1-LAS1-AJ-22X/21/G/024/P
■ 24V	I - II		-		90P1-LAS1-AJ-11X/21/R/024/P
■ 24V	I - II		-		90P1-LAS1-AJ-22X/21/R/024/P



3 Position: Stay Put 45°

■ 24V	I - 0 - II								90P1-LAS1-AJ-22X/31D/G/024/P
■ 24V	I - 0 - II								90P1-LAS1-AJ-22X/31D/R/024/P

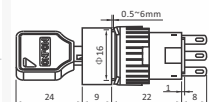


Rectangle Key Switch

2 Position: Stay Put 90°



-	I - II		-		90P1-LAS1-AJ-11Y/21/P
-	I - II		-		90P1-LAS1-AJ-22X/21/P



3 Position: Stay Put 45°

-	I - 0 - II							90P1-LAS1-AJ-22Y/31D/P
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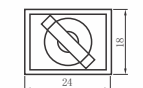




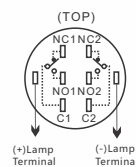
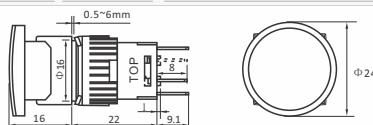
Illustration	Lens Colour	Lamp Voltage	Possible Contact Configuration			Part Number	Contact Diagram
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Red Mushroom Head Pushbutton

Momentary/Spring Return



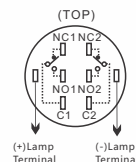
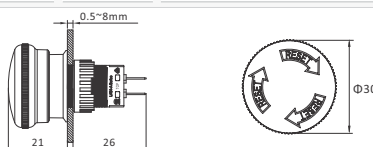
● Red	-	1CO	1NO	1NC	-	90P1-LAS1-AM11/R/P
● Red	-	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AM22/R/P



Push-in Turn to Reset



● Red	-	1CO	1NO	1NC	-	90P1-LAS1-AY-11TSB/R/P
● Red	-	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22TSB/R/P



Red Mushroom Illuminated Pushbutton

Momentary/Spring Return



● Red	24V	1CO	1NO	1NC	-	90P1-LAS1-AM-11/R/24V/P
● Red	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AM-22/R/24V/P

Maintained/Latching

● Red	24V	1CO	1NO	1NC	-	90P1-LAS1-AM-11Z/R/P
● Red	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AM-22Z/R/P

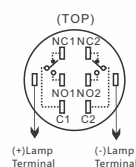
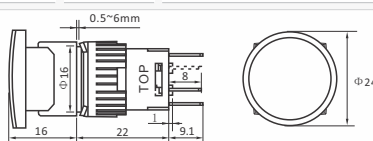
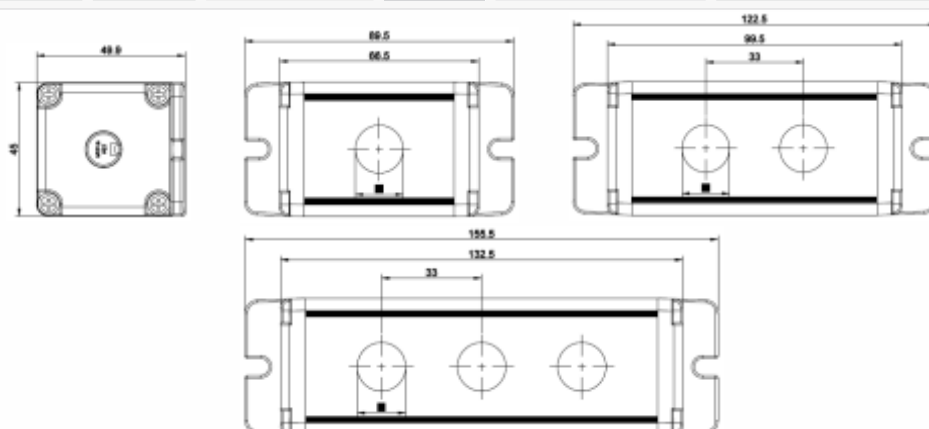


Illustration	No. of Hole	Cut-out Hole	Material	IP Rating	Dimension (L x W x H)	Part Number
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Pushbutton Enclosure Box



1 hole	16mm	Aluminium Alloy	IP40	66.5 x 45 x 49.9mm	90P1-BXM-B1/16
1 hole	22mm	Aluminium Alloy	IP40	66.5 x 45 x 49.9mm	90P1-BXM-B1/22
2 hole	16mm	Aluminium Alloy	IP40	99.5 x 45 x 49.9mm	90P1-BXM-B2/16
2 hole	22mm	Aluminium Alloy	IP40	99.5 x 45 x 49.9mm	90P1-BXM-B2/22
3 hole	16mm	Aluminium Alloy	IP40	132.5 x 45 x 49.9mm	90P1-BXM-B3/16
3 hole	22mm	Aluminium Alloy	IP40	132.5 x 45 x 49.9mm	90P1-BXM-B3/22



TECHNICAL INFORMATION:

Product Description:

+ Specification:

The bezel of the products is available in 3 shapes: **Round** (Ø18mm), **Square** (18 x 18mm), **Rectangle** (18 x 24mm).

Including the Pilot Lights, Pushbuttons, Illuminated Pushbuttons, Selector Switches, Key Switches, Emergency Stops and Buzzers.

The **mounting cut-out** is **Ø16mm**, some products can be equipped with an adaptor ring to install the product in the **Ø22mm mounting cut-out**.

+ Data:

The product has the characteristics of stable performance, low contact resistance, strong insulation, resistance to vibration and shock, etc.; meets IEC60947-5-1, GB14048.5 and other standards.

+ Construction:

Snap-Action switching element. Each switching element contains a normally Open and a normally Close.

Each button can be configured with a maximum of 2 switching elements. Gold plated terminal gives protection against corrosion in harsh environment.

+ Protection Rating

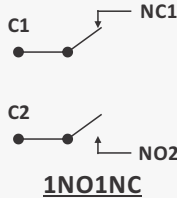
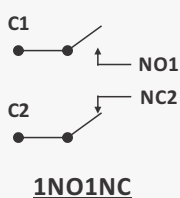
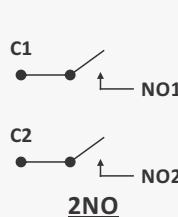
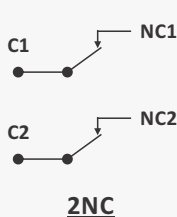
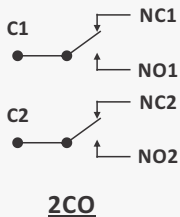
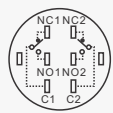
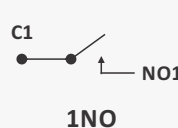
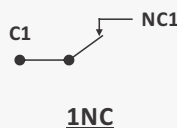
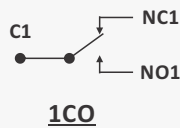
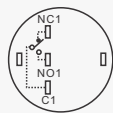
Products have **IP65**. By adding **S09 Sealing Cover**, the protection can be extended to **IP67**.

* except Buzzer which is IP40.

Rated Insulation Voltage		250V				
Thermal Current I _{th}		5A temperature do not exceed the highest rated allowed current				
Rated Operating Voltage		12V	24V	110V	220V	
Rated Operating Current	Frequency 50/60 Hz	Resistive Load	-	-	1A	0.5A
		Inductive Load	-	-	0.7A	0.5A
	DC	Resistive Load	1A	1A	0.2A	-
		Inductive Load	0.7A	0.7A	0.1A	-
Contact Material		Silver Alloy				

Bulb Type	Dual Direction LED					
Rated Voltage	AC/DC 6V	AC/DC 12V	AC/DC 24V			
	AC/DC 110V	AC/DC 220V				
Illumination Colors	R	G	Y	O	B	W
Lifespan	approx. 40,000 hours					

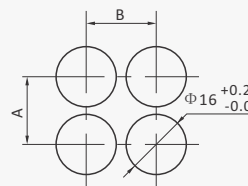
+ Possible Contact Configuration:



+ Specification Features:

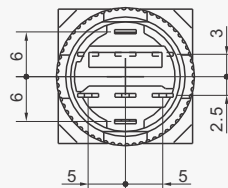
Operation Environment	(-)25°C ~ (+) 55°C (no freezing) Contact Body surroundings must have airflow	
Environment	45-85% RH (no condensation)	
Contact Resistance	≤ 50mΩ	
Insulation Resistance	≥ 100MΩ	
Overvoltage	Between the Contact Terminals & Lamp	2000 V, 50 Hz AC, 1 Minute
	Between the Same Terminal	1500 V, 50 Hz, 1 Minute
	Between the Different Terminal	2000 V, 50 Hz, 1 Minute
Vibration Assistance	50 Hz, Amplitude Approx 1.2mm	
Shock Assistance	Until 10g	
Lifespan	Mechanics	
	Momentary	1,000,000
	Latching, Selector	500,000
	Key, Emergency	200,000
Electrical	50,000 and above	
Wire Connection	Soldering Diameter: 2 x 0.08mm Largest copper wire area: 0.75mm ² Faston Terminals: 2.8 x 0.5	
Solder Heat Resistance	320°C (or 30 watt soldering iron) not more than 2 sec.	
Travel	Pushbutton Approx. 3mm travel	
Operating Force	(On Lens Cap) According to no. of contacts ± 4 Newton (100gf ~400gf)	

+ Cut-out Dimensions:

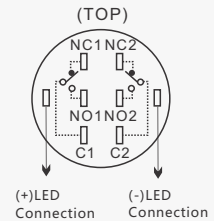


Type	A	B
Circle	≥ 18mm	≥ 18mm
Sqaure	≥ 18mm	≥ 18mm
Rectangle	≥ 18mm	≥ 24mm
Mushroom	≥ 24mm	≥ 24mm

+ Bottom View:



+ Terminal configuration:

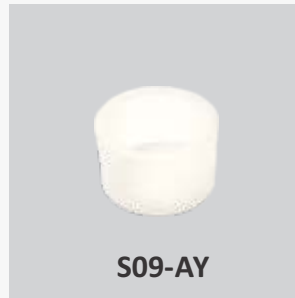




S01
Switch Guard
for Round & Square Pushbutton



S02
Switch Guard
for Rectangle Pushbutton



S09-AY
Seal Cover
for Round Pushbutton
& Pilot Light



S09-AJ
Seal Cover
for Rectangle Pushbutton
& Pilot Light



S10
Emergency Stop Label



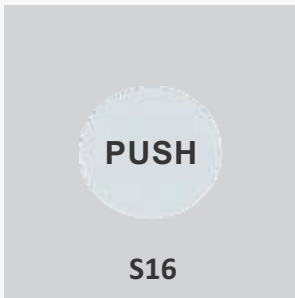
S11
Lamp Holder Tool



S13
Corner Removal Tool



S15
Diameter Changing Circle
from Ø16mm to Ø22mm



S16
Pushbutton & Pilot Light Label



S19
Label Frame for Control Units

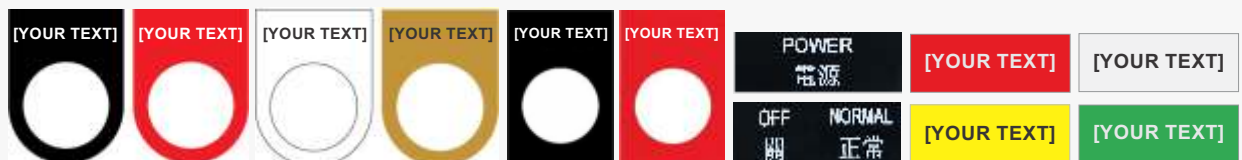
★ UV Printing Service on Nameplates/Labels

- Symbol and Text can be customized according to your requirements.
- The symbol and text are also applicable to Square and Rectangle nameplates/labels.



★ Customized Engraving/UV Printing Service

- Plastic Materials: Ply, Acrylic, Traffolyte & etc.
- Metal Materials: Aluminium, Stainless Steel, Copper, Brass & etc.
- Text, Dimension and Cut-out hole can be customized according to your requirements.



IP65 RoHS CE

Ø16mm Stainless Steel Control Units

● Red ● Green ● Yellow ● Blue ○ White



Pushbutton



Pushbutton/Pilot Light w/ Dot Illumination



Pushbutton/Pilot Light w/ Ring Illumination



Pushbutton Power Symbol Illumination



Pushbutton Power Symbol w/ Ring Illumination

Ø19mm Stainless Steel Control Units

● Red ● Green ● Yellow ● Blue ○ White



Pushbutton



Pushbutton/Pilot Light w/ Dot Illumination



Pushbutton/Pilot Light w/ Ring Illumination



Pushbutton Power Symbol Illumination



Selector Switch w/ Ring Illumination



Selector Switch



Buzzer
Buzzer w/ Illumination



Pushbutton



Pushbutton/Pilot Light w/ Dot Illumination



Pushbutton/Pilot Light w/ Ring Illumination

Ø22mm Buzzer

● Red ● Black



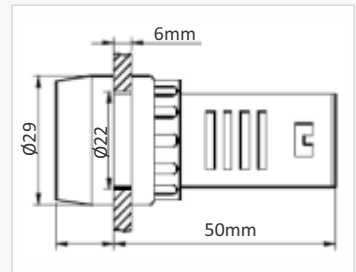
Buzzer w/ Red Illumination
(24V or 220VAC)

9OP5-AD16-22SM/R/24V
9OP5-AD16-22SM/R/220V



Buzzer w/ Red Illumination
(24V or 220VAC)

9OP5-AD16-22SM/R/24V
9OP5-AD16-22SM/R/220V



SINGAPORE



Schlegel Elektrokontakt Co (FE) Pte Ltd

3015A Ubi Road 1 #06-13/14, Singapore 408705

+65 6841 8691

+65 6841 8693

sales@schlegel.com.sg

www.schlegel.com.sg

MALAYSIA



Schlegel Elektrokontakt (M) Sdn Bhd

sales@schlegel.com.my

www.schlegel.com.my

THAILAND



Schlegel Elektrokontakt (Thailand) Co., Ltd

setcod@ksc.th.com

INDONESIA



Partner: CV. Lestari Electric

Gedung Lindeteves Trade Center (LTC)

Jl. Hayam Wuruk 127 Lt. UG Blok C 28 no.8-9

Jakarta Barat, DKI Jakarta 11180

021 2268 2498 / 021 2268 5926

0821 2000 3793

lestari.ltcglodok@gmail.com

VIETNAM



MYANMAR



CAMBODIA



PHILIPPINES

