



Push Button Switches

Push Button Switches (Illuminated)

Selector Switches

Double Push Button Switches

Start Push Button Switches

Emergency Switches

Emergency Switches (Illuminated)

Pilot Lamps

Accessories

Magnetic Buzzers

Piezo Buzzers

Sockets

L 2 RR - L2 R D
 ① ② ③ ④ ⑤ ⑥

Classification	Ordering Information						Description
	①	②	③	-	④	⑤ ⑥	
Model	L						Pilot lamps
Dimension	2						Ø22/25
	3						Ø30
Appearance			RR				Round pilot lamps (Non-Flush)
			RF				Round pilot lamps (Flush)
Head Type					L1		DOME HEAD
					L2		HORN HEAD
					L3		FLAT HEAD
Color					R		RED
					B		BLUE
					G		GREEN
					Y		YELLOW
					W		WHITE
Contact						D	LED 12-24VDC/AC
						L	LED 110-220VAC



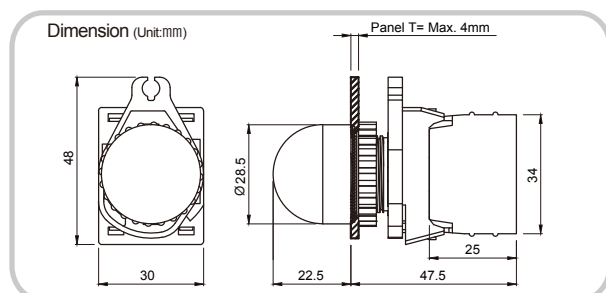
● Ø22/25 DOME TYPE Pilot Lamps



Model	LED	
	DC Type	AC Type
L2RR - L1□D	1EA	
" - " □L		1EA

※ Represents colors □ : R, B, G, Y, W

- Improved visibility with high luminance LED
- Mounting hole layout : Ø22.5 / 25.5mm





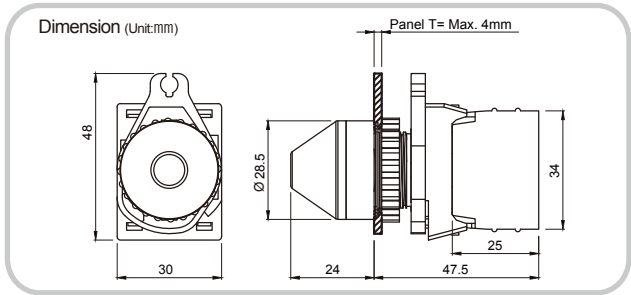
● Ø22/25 HORN TYPE Pilot Lamps



Model	LED	
	DC Type	AC Type
L2RR - L2□D	1EA	
" - " □L		1EA

※ Represents colors □ : R, B, G, Y, W
● ● ● ● ●

- Improved visibility with high luminance LED
- Mounting hole layout : Ø22.5 / 25.5mm



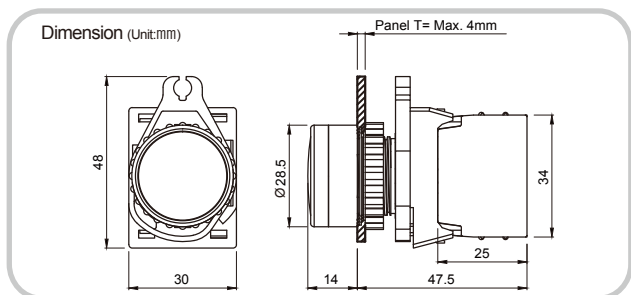
● Ø22/25 FLAT TYPE Pilot Lamps (Non-Flush)



Model	LED	
	DC Type	AC Type
L2RR - L3□D	1EA	
" - " □L		1EA

※ Represents colors □ : R, B, G, Y, W
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- Simple and elegant design
- Mounting hole layout : Ø22.5 / 25.5mm



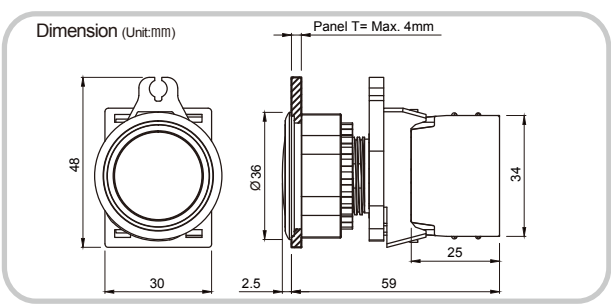
● Ø30 FLAT TYPE Pilot Lamps(Flush)



Model	LED	
	DC Type	AC Type
L3RF - L3□D	1EA	
" - " □L		1EA

※ Represents colors □ : R, B, G, Y, W


● Mounting hole layout : Ø30.5mm





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- Push Button Switches
- Push Button Switches (Illuminated)
- Selector Switches
- Double Push Button Switches
- Start Push Button Switches
- Emergency Switches
- Emergency Switches (Illuminated)
- Pilot Lamps
- Accessories
- Magnetic Buzzers
- Piezo Buzzers
- Sockets

Control Switches Series

Items	Push Button Switches			Push Button Switches(Illuminated)		Double Push Button Switches	Start Push Button Switches
	Non-Flush Ø22 / 25	Non-Flush Ø30	Flush Ø30	Non-Flush Ø22 / 25	Flush Ø30	Non-Flush Ø22 / 25	Non-Flush Ø22 / 25
Mounting Hole Dimension	Ø22 / 25	Ø30	Ø30	Ø22 / 25	Ø30	Ø22 / 25	Ø22 / 25
Model	S2PR - P1	S3PR - P1	S3PF - P1	S2PR - P3	S3PF - P3	S2TR - P3	S2BR - P1
Appearance							
Page	06	07	07	08	08	12	13
Items	Selector Switches, Non-Flush			Selector Switches, Non-Flush			
	Short Lever Ø22 / 25		Long Lever Ø22 / 25	Short Lever Ø30		Long Lever Ø30	
Mounting Hole Dimension	Ø22 / 25		Ø22 / 25	Ø30		Ø30	
Model	S2SR - S3,5,7		S2SR - S4,6,8	S3SF - S3,5,7		S3SF - S4,6,8	
Appearance							
Page	10		10	11		11	
Items	Ø30 Emergency Switches		Ø40 Emergency Switches		Ø60 Emergency Switches		
	Large Head Ø22 / 25	Small Head Ø22 / 25	Non-Illuminated Ø22 / 25	Illuminated Ø22 / 25	Non-Illuminated Ø22 / 25		
Mounting Hole Dimension	Ø22 / 25	Ø22 / 25	Ø22 / 25	Ø22 / 25	Ø22 / 25		
Model	S2ER - E1	S2ER - E2	S2ER - E3	S2ER - E4	S2ER - E5		
Appearance							
Page	14	15	15	16	16		
Items	Dome Type / Horn Type / Flat Type Pilot Lamps						
	Dome Type Ø22 / 25	Horn Type Ø22 / 25	Flat Type Ø22 / 25	Flat Type, Flush Ø30			
Mounting Hole Dimension	Ø22 / 25	Ø22 / 25	Ø22 / 25	Ø30			
Model	L2RR - L1	L2RR - L2	L2RR - L3	L3RF - L3			
Appearance							
Page	17	18	18	19			

Specifications

Mechanical Characteristics	Actuating Travel	5.5mm (0 ~ -0.5)	
	Actuating Force	4.9N (0.5Kgf) (at 1 contact)	
	Shock	Shock Resistance	500m/s ² (50G) in each of x,y,z directions for 3 times
		Mechanical Malfunction	100m/s ² (10G) in each of x,y,z directions for 3 times
	Vibration	Vibration Resistance	1.5mm amplitude at frequency of 10~55Hz(for 1minute) in each of x,y,z directions for 2 hours
Mechanical Malfunction		1.5mm amplitude at frequency of 10~55Hz(for 1minute) in each of x,y,z directions for 10 minutes	
	Mechanical Life Time	Min. 1 Million (20 times/min)	
Electrical Characteristics	Rated Voltage/Current	110VAC/10A, 250VAC/6A	
	Dielectric Strength	2000VAC 50/60Hz for 1 minute	
	Insulation Resistance	Min.100MΩ (at 500VDC)	
	Contact Resistance	Max.20mΩ (Initial value)	
	Electric Life Cycle	Min. 100 thousand (20 times/min)	
LED block	Rated Voltage	DC type : 12-24VAC/DC, AC type : 110-220VAC	
	Power Consumption	Max. 20mA	
	Ambient Temperature	-15 ~ 55 °C (at non-freezing status)	
Environmental Characteristics	Ambient Humidity	35 ~ 85%RH	
	Storage Temperature	-25 ~ 65 °C (at non-freezing status)	
	Protection Degree	IP52 (IP 50 for double push button switch)	
Approval	 (Emergency switches is  process of certification)		