



S	2	PR	-	P1	R	A	D
①	②	③		④	⑤	⑥	⑦

Classification	Ordering Information							Description		
	①	②	③	-	④	⑤	⑥		⑦	
Model	S								Control Switches	
Dimension	2								Ø22/25	
	3								Ø30	
Appearance			PR						Push button switches (Non-Flush)	
			PF						Push button switches (Flush)	
Operation					P1				Auto spring return (Non-Illuminated)	
					P3				Auto spring return (Illuminated)	
Color						R			RED	
						B			BLUE	
						G			GREEN	
						Y			YELLOW	
						K			BLACK (Available for Non-Illuminated type only)	
						W			WHITE (Available for Illuminated type only)	
Contact / LED Block							A		A (Normal open) 110VAC/10A, 250VAC/6A	
							B		B (Normal close) 110VAC/10A, 250VAC/6A	
								D	LED 12-24VDC/AC	
								L	LED 110-220VAC	

● Ø22/25 Push Button Switches(Non-Flush)

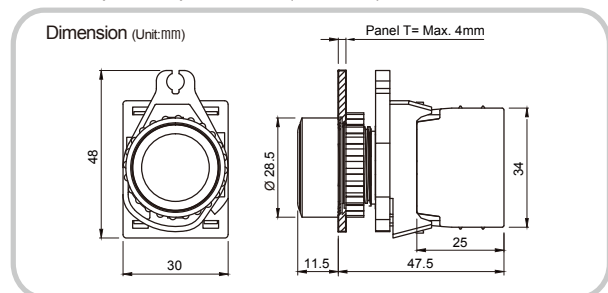


Model	Contacts	
	A Contact	B Contact
S2PR - P1□A	1EA	
" - " □2A	2EA	
" - " □3A	3EA	
" - " □B		1EA
" - " □2B		2EA
" - " □3B		3EA
" - " □AB	1EA	1EA
" - " □2AB	2EA	1EA
" - " □A2B	1EA	2EA

※ Represents colors □ : R, B, G, Y, K



- Easy assembly and removal by one touch
- Mounting hole layout : Ø22.5 / 25.5mm
- Waterproof cap available (SA-WP)





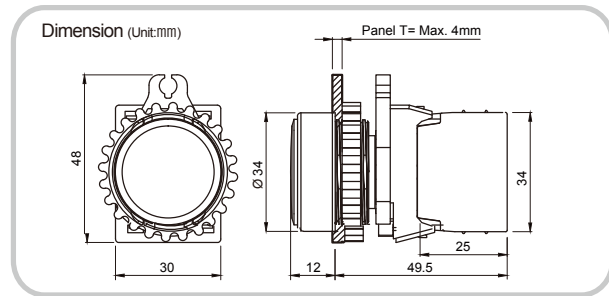
● Ø30 Push Button Switches (Non-Flush)



Model	Contacts	
	A Contact	B Contact
S3PR - P1□A	1EA	
" - " □2A	2EA	
" - " □3A	3EA	
" - " □B		1EA
" - " □2B		2EA
" - " □3B		3EA
" - " □AB	1EA	1EA
" - " □2AB	2EA	1EA
" - " □A2B	1EA	2EA

※ Represents colors □ : R, B, G, Y, K
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- Simple and elegant design
- Mounting hole layout : Ø30.5mm



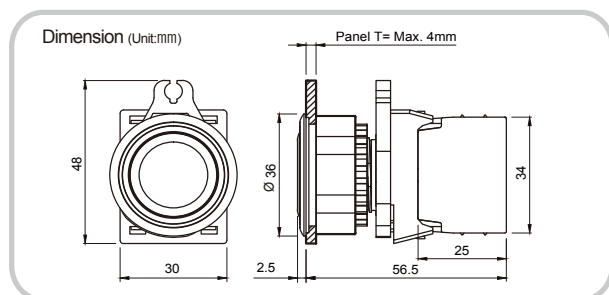
● Ø30 Push Button Switches (Flush)



Model	Contacts	
	A Contact	B Contact
S3PF - P1□A	1EA	
" - " □2A	2EA	
" - " □3A	3EA	
" - " □B		1EA
" - " □2B		2EA
" - " □3B		3EA
" - " □AB	1EA	1EA
" - " □2AB	2EA	1EA
" - " □A2B	1EA	2EA

※ Represents colors □ : R, B, G, Y, K
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- Mounting hole layout : Ø30.5mm



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



Push Button Switches (Illuminated)

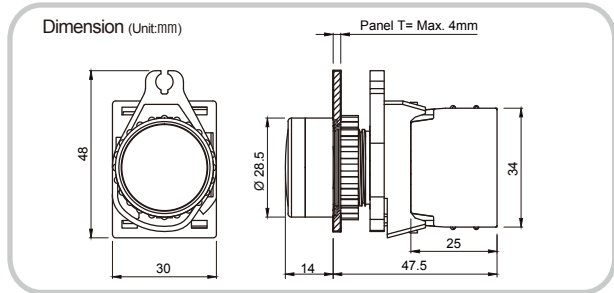
● Ø22/25 Push Button Switches (Illuminated / Non-Flush)



Model	Contacts		LED	
	A Contact	B Contact	DC Type	AC Type
S2PR - P3□AD	1EA		1EA	
" - " □2AD	2EA		1EA	
" - " □BD		1EA	1EA	
" - " □2BD		2EA	1EA	
" - " □ABD	1EA	1EA	1EA	
" - " □AL	1EA			1EA
" - " □2AL	2EA			1EA
" - " □BL		1EA		1EA
" - " □2BL		2EA		1EA
" - " □ABL	1EA	1EA		1EA

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



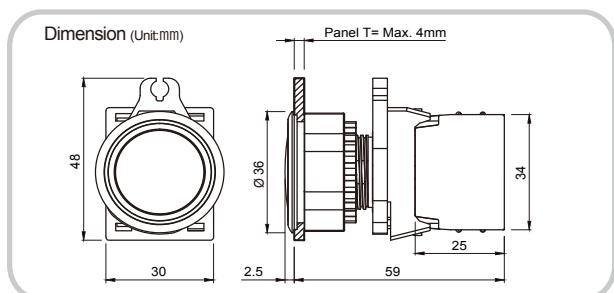
● Ø30 Push Button Switches (Illuminated / Flush)



Model	Contacts		LED	
	A Contact	B Contact	DC Type	AC Type
S3PF - P3□AD	1EA		1EA	
" - " □2AD	2EA		1EA	
" - " □BD		1EA	1EA	
" - " □2BD		2EA	1EA	
" - " □ABD	1EA	1EA	1EA	
" - " □AL	1EA			1EA
" - " □2AL	2EA			1EA
" - " □BL		1EA		1EA
" - " □2BL		2EA		1EA
" - " □ABL	1EA	1EA		1EA

※ Represents colors □ : R, B, G, Y, W
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- Mounting hole layout : Ø30.5mm



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)		