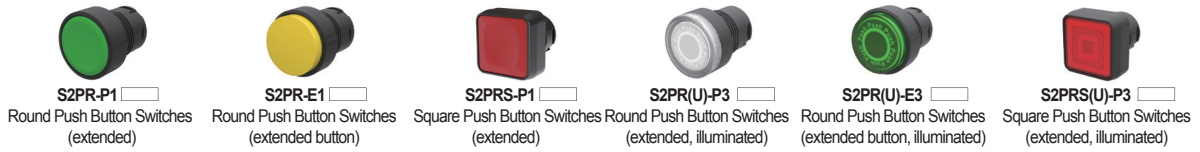


Configuration

Mounting Hole Ø22/25

■ S2PR Series (Push Button Switches)



■ S2SR Series (Selector Switches)



■ S2KR Series (Key Selector Switches)



■ S2ER Series (Emergency Switches)



■ S2BR (Mushroom-head Push Button Switches)



■ S2TR Series (Double Push Button Switches)



■ L2RR Series (Pilot Lights)



Mounting Hole Ø30

■ S3PR/S3PF Series (Round Push Button Switches)



■ S3KF Series (Key Selector Switch)



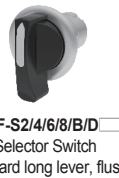
■ L3RF Series (Pilot Light)



■ S3SF Series (Selector Switch)

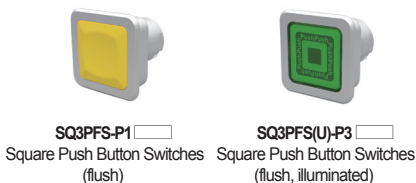


■ S3SFN Series (Selector Switch)



Mounting Hole □30

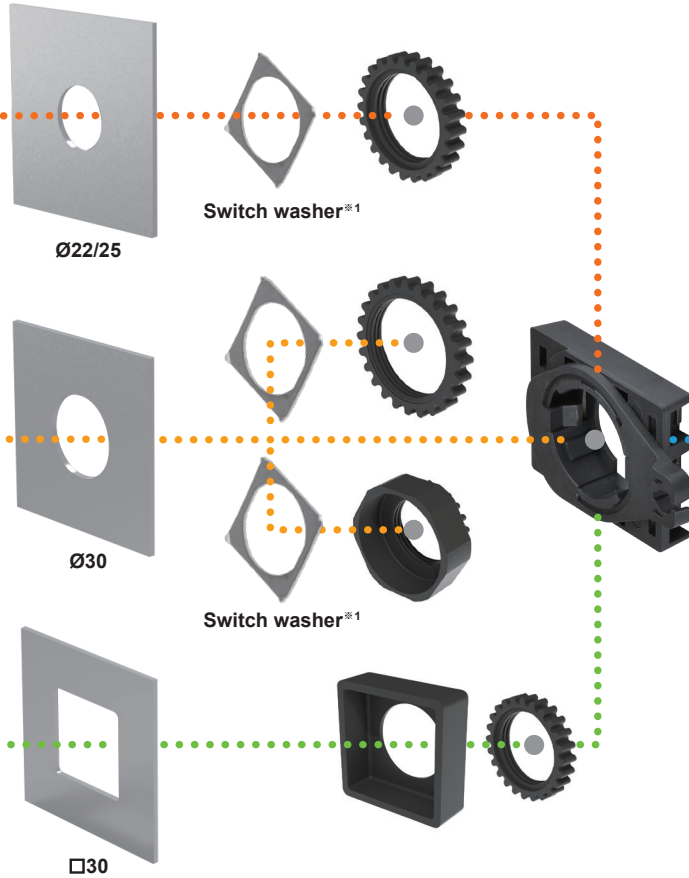
■ SQ3PFS Series (Square Push Button Switches)



■ LQ3RF Series (Pilot Light)



Mounting Panel



Control Switches

Ø16

Ø22/25

Ø30

□30

Push Button Switches

Round

Square

Rectangular

Selector Switches

Round

Square

Rectangular

Key Selector Switches

Round

Square

Rectangular

Double Push Button Switches

Mushroom-head Push Button Switches

Emergency Switches

Pilot Lights

Accessories

Buzzers

Contact Block/LED Block

■ SA-C Series (Contact Block)



Modular type
A contact block
SA-CAM



Modular type
B contact block
SA-CBM



Singular type
A contact block
SA-CA



Singular type
B contact block
SA-CB

■ SA-L Series (LED Block)



Modular type LED Block
SA-LD□M (12-24VAC/VDC) SA-LA□M (110-220VAC)



Singular type LED Block
SA-LD□ (12-24VAC/VDC) SA-LA□ (110-220VAC)











※ 1. Switch washer is sold separately.
Ø22/25: SA-SW2
Ø30: SA-SW3

※ □ indicates LED color: ■ ■ ■ ■ (no-mark)

※ Control unit and contact unit (contact block, LED block) are sold separately.

Specifications

Mounting hole Ø22/25, Ø30, □30 Control Switches

Type	Push Button Switches		Selector Switches	Key Selector Switches	Double push button switches	Start push button switches	Emergency Switches	Pilot Lights				
	Round	Square	Round	Round								
												
Mechanical characteristics	Actuation distance		5.0 to 5.5mm		—		5.0 to 5.5mm		—			
	Actuation angle		—		2-position: [Spring return] 60°±5°, 90°±5° [Maintained] 90°±5° 3-position: [Spring return] 60°±5°, 45°±5° [Maintained] 90°±5°, 45°±5°		2-position: [Spring return] 60°±5° [Maintained] 90°±5° 3-position: [Spring return] 60°±5° [Maintained] 90°±5°		40°±7°			
	Actuation force		0.5kgf (4.9N) (per 1 contact)		—		—		—			
	Shock	Mechanical	300m/s ² (Approx. 30G) X, Y, Z in each X, Y, Z direction for 3 times									
		Malfunction	100m/s ² (Approx. 10G) X, Y, Z in each X, Y, Z direction for 3 times									
	Vibration	Mechanical	1.5mm amplitude at frequency of 10 to 55Hz (for 1 min.) in each X, Y, Z direction for 2 hours									
		Malfunction	1.5mm amplitude at frequency of 10 to 55Hz (for 1 min.) in each X, Y, Z direction for 10 minutes									
	Mechanical life cycle (control unit life cycle)		Min. 1,000,000 operations (20 operations/min)		Min. 100,000 operations (20 operations/min)		Min. 1,000,000 operations (20 operations/min)		Min. 100,000 operations (20 operations/min)		—	
	Contact block	Power voltage/current		110VAC/10A, 250VAC/6A								
		Dielectric strength		2,500VAC 50/60Hz for 1 min.								
Insulation resistance		Min. 1,000MΩ (at 500VDC megger)										
Contact resistance		Max. 20mΩ (initial value)										
Electrical life cycle		Min. 100,000 operations (20 operations/min)										
Contact material		AgNi10										
LED block	Power supply		AC/DC voltage type: 12-24VAC 50/60Hz, 12-24VDC, AC voltage type: 110-220VAC 50/60Hz									
	Current consumption		Max. 20mA									
Environment ^{*1}	Ambient temperature		-15 to 55°C, storage : -25 to 65°C									
	Ambient humidity		35 to 85%RH, storage : 35 to 85%RH									
Protection structure		IP52 (IP65 protection structure with waterproof cap for ø22/25 round push button switches, IP50 protection structure for double push button switches)										
Approval		    (pilot lights and LED blocks are except  certifications, emergency switches are except  certifications)										
Weight	Mounting hole	Ø22/25	Approx. 14.5g	Approx. 15.5g	Standard: Approx. 19g Shark-head: Approx. 16g	Approx. 37g	Approx. 14.5g	Approx. 21g	D30:Approx. 22.5g D40:Approx. 22.5g D60:Approx. 27g	Approx. 15.5g		
		Ø30	Approx. 21.5g	—	Standard: Approx. 23.5g Shark-head: Approx. 21g	Approx. 41g	—	—	—	Approx. 22g		
		□30	—	Approx. 22g	—	—	—	—	—	—		
	Housing		Approx. 7g									
	Contact block	Modular type A/B contact		Approx. 10g								
		Singular type A/B contact		Approx. 11g								
	LED block	AC/DC voltage type		Approx. 11g								
AC voltage type		Approx. 12g										

*1. Environment resistance is rated no freezing or condensation.

Control Switches

Ø16

Ø22/25

Ø30

□30

Push Button Switches

Round

Square

Rectangular

Selector Switches

Round

Square

Rectangular

Key Selector Switches

Round

Square

Rectangular

Double Push Button Switches

Mushroom-head Push Button Switches

Emergency Switches

Pilot Lights

Accessories

Buzzers