□ 30 mm

Push Button Switches

Autonics

• Observe all 'Safety Considerations' for safe and proper operation to avoid hazards.

▲ symbol indicates caution due to special circumstances in which hazards may occur.

Warning Failure to follow instructions may result in serious injury or death.

- **01.** Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime / disaster prevention devices, etc.) Failure to follow this instruction may result in personal injury, economic loss or fire.
- 02. Do not use the unit in the place where flammable / explosive / corrosive gas, high humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present.
 Failure to follow this instruction may result in explosion or fire.
- O3. Install on a device panel to use.
 Failure to follow this instruction may result in fire or electric shock

Safety Considerations

- Do not connect, repair, or inspect the unit while connected to a power source.
- Failure to follow this instruction may result in fire or electric shock. **05. Do not disassemble or modify the unit.** Failure to follow this instruction may result in fire or electric shock.
- r anure to ronow this instruction may result in fire or electric shock.
- **Caution** Failure to follow instructions may result in injury or product damage.
 01. This unit shall not be used outdoors.
- Failure to follow this instruction may result in shortening the life cycle of the product or electric shock.
- **02. Use the unit within the rated specifications.** Failure to follow this instruction may result in fire or product damage.
- 03. Do not use the load beyond rated switching capacity contact. Failure to follow this instruction may result in fire, relay broken, contact melt, insulation failure or contact failure.
- of the product, do not pull the wiring excessively or apply excessive force.
- Failure to follow this instruction may result in product damage or malfunction. 05. Use dry cloth to clean the unit, and do not use water or organic solvent.
- Failure to follow this instruction may result in fire or electric shock. 06. Keep the product away from metal chip, dust, and wire residue which from
- vo. Reep the product away from metal chip, dust, and wire residue which froi flowing into the unit. Failure to follow this instruction may result in fire or product damage.

SQ3PF Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Smooth operation
- High electrical conductivity
- Long-lasting durability



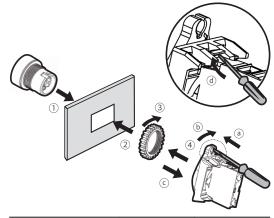
Specifications

Series	SQ3PF Series		
Actuation distance	5.0 to 5.5 mm		
Actuation force	0.5 kgf (4.9 N) (per 1 contact)		
Installation	Flush		
Shock	300 m/s ² (≈ 30 G) in each X, Y, Z direction for 3 times		
Shock (malfunction)	100 m/s ² (≈ 10 G) in each X, Y, Z direction for 3 times		
Vibration	.5 mm double amplitude at frequency of 10 to 55 Hz in each X, Y, z lirection for 2 hours		
Vibration (malfunction)	1.5 mm double amplitude at frequency of 10 to 55Hz in each X, Y, Z direction for 10 minutes		
Mechanical life cycle (control unit life cycle)	Returned: \geq 1 million operations (20 operations/min)		
Ambient temperature	-15 to 55 °C, storage : -25 to 65 °C (no freezing or condensation)		
Ambient humidity	35 to 85 %RH, storage : 35 to 85 %RH (no freezing or condensation		
Protection structure	Control unit: IP52 (IEC standard)		
Certification	C € \ K & , 91 [H]		
Control unit weight	≈ 22 g		
Housing weight	≈7g		
Contact blocks			
Power supply / current	110 VAC~ / 10 A, 250 VAC~ / 6 A		
Dielectric strength	Between the charging part and the case : 3,000 VAC \sim 50/60 Hz for 1 minute		
Insulation resistance	≥ 1,000 MΩ (500 VDC== megger)		
Contact resistance	\leq 20 m Ω (initial)		
Electrical life cycle	≥ 100,000 operations (20 operations/min)		
Contact material	AgNi10		
Certification	C € \ \ \ . \ . \ . \ . \ . \ . \ . \ . \		
Weight	Modular type: \approx 10 g, Singular type: \approx 11 g		
LED blocks			
Rated voltage	AC/DC voltage type: 12-24 VAC~ 50/60 Hz, 12-24 VDC= AC voltage type: 110-220 VAC~ 50/60 Hz		
Current consumption	≤ 20 mA		
Certification	C € ヒff 。₩J ₀₀ EAI		
M. 1.1.			

AC/DC voltage type: ≈ 11 g, AC voltage type: ≈ 12 g

Assembly / Disassembly

- Assembly order: $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$
- Disassembly order: (a)→(b)→(c)→(d)



Control Switches	Panel thickness	Tightening torque	
Ø 22/25/30 mm	Max. 6 mm	\leq 1.47 N·m	

Sold Separately

Weight

Contact blocks (SA□-C□□)

Ordering Information

This is only for reference. For selecting the specified model, follow the Autonics website. Model is based on control unit+block combination. Control units or blocks are sold separately. In case of block, refer to control switch accessories.

Non-illuminated

Illuminated

3 8 4 5		
Block		
Contact block		
A: 1 A contact		
2A: 2 A contacts		
3A: 3 A contacts		
B: 1 B contact		
2B: 2 B contacts		
3B: 3 B contacts		
AB: 1 A contact, 1 B contact		
2AB: 2 A contacts, 1 B contact		
A2B: 1 A contact, 2 B contacts		
Block type		
No mark: Singular type		
M: Modular type		

Model	Contact block		LED block	
model	A contact	B contact	AC/DC voltage	AC voltage
SQ3PFS-P1 A(M)	1	-		
SQ3PFS-P1 2A(M)	2	-		
SQ3PFS-P1 3A(M)	3	-		
SQ3PFS-P1 B(M)	-	1		
SQ3PFS-P1 2B(M)	-	2	-	-
SQ3PFS-P1□3B(M)	-	3		
SQ3PFS-P1 AB(M)	1	1		
SQ3PFS-P1 2AB(M)	2	1]	
SQ3PFS-P1 A2B(M)	1	2		

M: Modular type	
No mark: Singular typ	ю

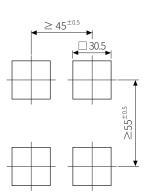
SQ3 0 0 - 0	
Control unit	Block
O Switch type PFS: Square push button switch (flush)	G Arrow direction No mark: None L: Left / Right U: Up / Down
 Character marking No mark: Push (control unit + singular type block)⁰¹⁾ No mark: None (control unit + modular type block) U: None (control unit)⁰²⁾ 	© Contact block A: 1 A contact 2A: 2 A contacts B: 1 B contact 2B: 2 B contacts AB: 1 A contact, 1 B contact
O Illuminated P3: Illuminated	 CLED block D: 1 AC/DC voltage type L: 1 AC voltage type
Color R: Red B: Blue G: Green Y: Yellow W: White 01) Only for non arrow direction model. 02) Only available for control unit. Select the block separation	Block type No mark: Singular type M: Modular type

Model	Contact block		LED block	LED block	
Model	A contact	B contact	AC/DC voltage	AC voltage	
SQ3PFS-P3 AD(M)	1	-		-	
SQ3PFS-P3 2AD(M)	2	-			
SQ3PFS-P3 BD(M)	-	1	1		
SQ3PFS-P3 2BD(M)	-	2			
SQ3PFS-P3 ABD(M)	1	1			
SQ3PFS-P3 AL(M)	1	-			
SQ3PFS-P3 2AL(M)	2	-			
SQ3PFS-P3 BL(M)	-	1	-	1	
SQ3PFS-P3 2BL(M)	-	2			
SQ3PFS-P3 ABL(M)	1	1			
SQ3PFS-P3 LAD(M)	1	-		-	
SQ3PFS-P3 L2AD(M)	2	-			
SQ3PFS-P3 LBD(M)	-	1	1		
SQ3PFS-P3 L2BD(M)	-	2			
SQ3PFS-P3 LABD(M)	1	1			
SQ3PFS-P3 LAL(M)	1	-			
SQ3PFS-P3 L2AL(M)	2	-		1	
SQ3PFS-P3 LBL(M)	-	1	-		
SQ3PFS-P3 L2BL(M)	-	2			
SQ3PFS-P3 LABL(M)	1	1			
SQ3PFS-P3 UAD(M)	1	-		-	
SQ3PFS-P3 U2AD(M)	2	-			
SQ3PFS-P3 UBD(M)	-	1	1		
SQ3PFS-P3 U2BD(M)	-	2			
SQ3PFS-P3 UABD(M)	1	1			
SQ3PFS-P3 UAL(M)	1	-			
SQ3PFS-P3 U2AL(M)	2	-		1	
SQ3PFS-P3 UBL(M)	-	1	-		
SQ3PFS-P3 U2BL(M)	-	2			
SQ3PFS-P3 UABL(M)	1	1			

Dimensions

- Unit: mm, For the detailed drawings, follow the Autonics website.
- Panel thickness: \leq 6 mm
- SQ3PF-P (singular type block)

Panel cut-out



SQ3PF-P M (modular type block)

