20210408 Autonics

Ø 22/25 mm I/O Push Button Switches



S2TR 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	S2TR Series				
Actuation distance	5.0 to 5.5 mm				
Actuation force	0.5 kgf (4.9 N) (per 1 contact)				
Installation	Extended				
Shock	300 m/s² (≈ 30 G) in each X, Y, Z direction for 3 times				
Shock (malfunction)	$100 \text{ m/s}^2 (\approx 10 \text{ G})$ in each X, Y, Z direction for 3 times				
Vibration	$1.5\mathrm{mm}$ amplitude at frequency of 10 to $55\mathrm{Hz}$ (for $1\mathrm{min}$) in each X, Y, Z direction for $2\mathrm{hours}$				
Vibration (malfunction)	$1.5\mathrm{mm}$ amplitude at frequency of 10 to 55Hz (for $1\mathrm{min}$) in each X, Y, Z direction for $10\mathrm{minutes}$				
Mechanical life cycle (control unit life cycle)	≥ 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: IP50 (IEC standard)				
Approval	(\$\frac{1}{3}\$) (\$\frac{1}{3}				
Control unit weight	≈ 14.5 g				
Housing weight	≈7g				
Contact blocks					

Contact blocks					
Power supply / current	110 VAC~ / 10 A, 250 VAC~ / 6 A				
Dielectric strength	2,500 VAC~ 50/60 Hz for 1 minute				
Insulation resistance	\geq 1,000 M Ω (500 VDC== megger)				
Contact resistance	\leq 20 m Ω (initial)				
Electrical life cycle	≥ 100,000 operations (20 operations/min)				
Contact material	AgNi10				
Approval	(§)]H3 zu UP ₃ ℤ ∋ ⊃				
Weight	Modular type: ≈ 10 g, Singular type: ≈ 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				
Approval	C € c SN us EAL				
Weight	AC/DC voltage type: ≈ 11 g, AC voltage type: ≈ 12 g				

Sold Separately

- Contact blocks (SA□-C□□)
- LED blocks (SA□-L□□□)
- Switch enclosures (SA- \square B \square)
- Locking handle (SA□-LH)
- Switch washer (SA-SW□)

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

S2TR	-	Р	1	W	0	2
Control unit					Blo	ock

Contact block

2A: 2 A contacts 2B: 2 B contacts

AB: 1 A contact, 1 B contact

Block

No mark: Singular type M: Modular type

Model	Contact block		LED block		
Model	A contact	B contact	AC/DC voltage	AC voltage	
S2TR-P1W2A(M)	2	-		-	
S2TR-P1W2B(M)	-	2	-		
S2TR-P1WAB(M)	1	1			

■ Illuminated

S2TR	-	Р	3	W	0	2	3
	(Control unit				Block	

① Contact block

2A: 2 A contacts 2B: 2 B contacts

AB: 1 A contact, 1 B contact

Block

No mark: Singular type M: Modular type

Model	Contact block		LED block		
Model	A contact	B contact	AC/DC voltage	AC voltage	
S2TR-P3W2AD(M)	2	-	1	-	
S2TR-P3W2AL(M)	2	-	-	1	
S2TR-P3W2BD(M)	-	2	1	-	
S2TR-P3W2BL(M)	-	2	-	1	
S2TR-P3WABD(M)	1	1	1	-	
S2TR-P3WABL(M)	1	1	-	1	

2 LED block

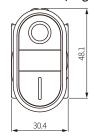
D: 1 AC/DC voltage type

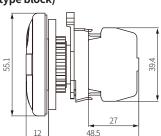
L: 1 AC voltage type

Dimensions

- Unit: mm, For the detailed drawings, follow the Autonics website.
- Panel thickness: ≤ 6 mm

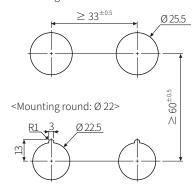
■ S2TR- (singular type block)





■ Panel cut-out

<Mounting round: Ø 25>



■ S2TR- M (modular type block)

