Autonics

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

- A 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
- 03. Install on a device panel to use. Failure to follow this instruction may result in fire or electric shock.

Safety Considerations

- 04. 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.
- 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 04. For wiring 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 flowing into the unit.
 - Failure to follow this instruction may result in fire or product damage.

S2TR Series CATALOG

For your safety, read and follow the considerations written in the instruction

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

I/O Push Button Switches

manual, other manuals and Autonics website.

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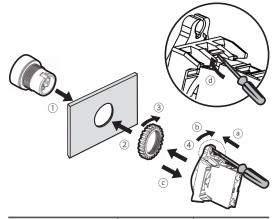
Ø 22/25 mm

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/s ² (≈ 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 mm amplitude at frequency of 10 to 55 Hz (for 1 min) in each Z direction for 2 hours				
Vibration (malfunction)	1.5 mm amplitude at frequency of 10 to 55Hz (for 1 min) in each Z direction for 10 minutes				
Mechanical life cycle (control unit life cycle)	\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: IP50 (IEC standard)				
Approval					
Control unit weight	≈ 14.5 g				
Housing weight	\approx 7 g				
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	≥ 1,000 MΩ (500 VDC= megger)				
Contact resistance	$\leq 20 \text{ m}\Omega \text{ (initial)}$				
Electrical life cycle	\geq 100,000 operations (20 operations/min)				
Contact material	AgNi10				
Approval					
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	\leq 20 mA				
Approval	C € c 🗫 us EAE				
Weight	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) \rightarrow (b) \rightarrow (c) \rightarrow (d)



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

Sold Separately

- Contact blocks (SA C)
 LED blocks (SA L)
- Switch enclosures (SA-□B□)
- 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.

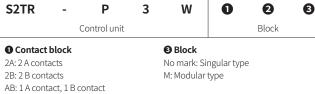
Non-illuminated

S2TR	-	Р	1	W	0	0
		Control unit			Block	
O Country of hills	I.			1-		

Contact block
2A: 2 A contacts
2B: 2 B contacts
AB: 1 A contact, 1 B contact

OBlock No mark: Singular type M: Modular type

Illuminated



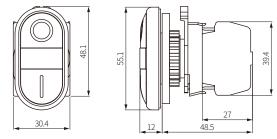
LED block

- D: 1 AC/DC voltage type
- L: 1 AC voltage type

Dimensions

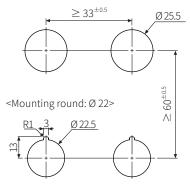
- Unit: mm, For the detailed drawings, follow the Autonics website.
- Panel thickness: $\leq 6 \text{ mm}$

S2TR- (singular type block)



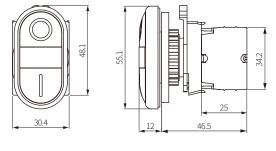
Panel cut-out

<Mounting round: Ø 25>



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

S2TR- M (modular type block)



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