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 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



I/O Push Button Switches

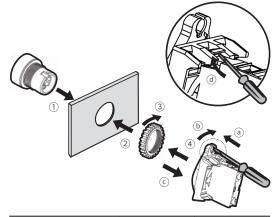
Ø 22/25 mm

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 (\approx 30 G) in each X, Y, Z direction for 3 times			
Shock (malfunction)	100 m/s ² (\approx 10 G) in each X, Y, Z direction for 3 times			
Vibration	1.5 mm double amplitude at frequency of 10 to 55 Hz in each X, Y, Z direction 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)	\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)			
Certification	C € ۲۶ 🕼 🔊 🕼 🗐 🖉 🛞			
Control unit weight	≈ 14.5 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~ 50/60 Hz for 1 minute			
Insulation resistance	≥ 1,000 MΩ (500 VDC== megger)			
Contact resistance	\leq 20 m Ω (initial)			
Electrical life cycle	\geq 100,000 operations (20 operations/min)			
Contact material	AgNi10			
Certification	C € ≚≝ ₀¶U‱ EAE <₽₽>			
Weight	Modular type: $pprox$ 10 g, Singular type: $pprox$ 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			
C 1	< 20. 4			

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

Current consumption

Certification

Weight

• Contact blocks (SA□-C□□)

 \leq 20 mA

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

- LED blocks (SA -L)
- Switch enclosures (SA-BB)
 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.

> 2B: 2 B contacts AB: 1 A contact, 1 B contact

Block type

No mark: Singular type M: Modular type

Non-illuminated

S2	0	-	2	3	4
	Control unit			Bl	ock
Switch type		Contact block			
TR: I/O push button switch (extended)			2A: 2 A contacts		

TR: I/O push button switch (extended)

1Iluminated

P1W: Non-illuminated

Illuminated

	minated					
S2	0	-	0	3	4	6
	Cont	rol unit			Block	
O Switc	h type		€ Co	ntact block	ζ.	
TR: I/O p	ush button s	witch (extended)	2A: 2	A contacts		
			2B: 2	B contacts		
			AB: 1	A contact, 1	B contact	

O Illuminated

P3W: Illuminated

L: 1 AC voltage type G Block type

G LED block

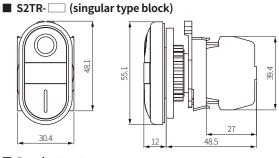
No mark: Singular type M: Modular type

D: 1 AC/DC voltage type

Dimensions

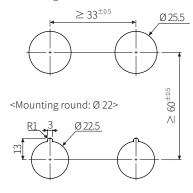
• Unit: mm, For the detailed drawings, follow the Autonics website.

• Panel thickness: \leq 6 mm



Panel cut-out

<Mounting round: Ø 25>



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		

Model	Contact bloc	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	

S2TR- M (modular type block)

