Ø 22/25 mm

Emergency Switches

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.



S2ER 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

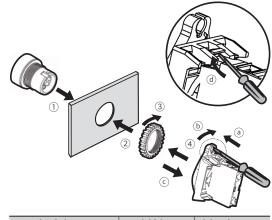
Specifications

Series	S2ER Series		
Actuation distance	5.0 to 5.5 mm		
Actuation angle	40° ±7°		
Actuation force	0.5 kgf (4.9 N) (per 1 contact)		
Installation	Extended		
Shock	$300 \text{ m/s}^2 (\approx 30 \text{ G})$ 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 X, Z direction for 2 hours		
Vibration (malfunction)	1.5 mm 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)	≥ 100,000 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)		
Approval	C€ № IHI @ (?)		
Control unit weight	D30: ≈ 22.5 g D40: ≈ 22.5 g D60: ≈ 27 g		
Housing weight	≈7g		

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	\geq 100,000 operations (20 operations/min)		
Contact material	AgNi10		
Approval			
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 E c PU us ERI		
Weight	AC/DC voltage type: ≈ 11 g, AC voltage type: ≈ 12 g		

Assembly / Disassembly

- Assembly order: 1)→2)→3)→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 1.96 N·m

Sold Separately

- Contact blocks (SA□-C□□)
- LED blocks (SA -L)
- Switch enclosures (SA-□B□)
 Locking handle (SA□-LH)
- Switch washer (SA-SW□)
- Emergency switch nameplates (SA-N_)
- Emergency switch protective shrouds (SA-EG

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.

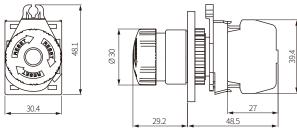
S2ER - E O	R	000	Model
Control unit		Block	S2ER-E1RA(M)
Button type	E LED blo	-k (D40)	S2ER-E1R2A(M)
1: (Non-illuminated) D30 + Long head	-	voltage type	S2ER-E1R3A(M)
2: (Non-illuminated) D30 + Short head	L: 1 AC volta	0 31	S2ER-E1RB(M)
3: (Non-illuminated) D40 + Short head	L. INC VOID	ige type	S2ER-E1R2B(M)
4: (Illuminated) D40 + Short head			S2ER-E1R3B(M
5: (Non-illuminated) D60 + Short head			S2ER-E1RAB(M
(S2ER-E1R2AB(N
Ocontact block	Block		S2ER-E1RA2B(N
A: 1 A contact	No mark: Si	ngular type	S2ER-E2RA(M)
2A: 2 A contacts	M: Modular	type	S2ER-E2R2A(M)
3A: 3 A contacts			S2ER-E2R3A(M)
B: 1 B contact			S2ER-E2RB(M)
2B: 2 B contacts			S2ER-E2R2B(M
3B: 3 B contacts			S2ER-E2R3B(M
AB: 1 A contact, 1 B contact			S2ER-E2RAB(M
2AB: 2 A contacts, 1 B contact			S2ER-E2R2AB(
A2B: 1 A contact, 2 B contacts			S2ER-E2RA2B(

Madal	Contact block		LED block	LED block	
Model	A contact	B contact	AC/DC voltage	AC voltage	
S2ER-E1RA(M)	1	-			
S2ER-E1R2A(M)	2	-			
S2ER-E1R3A(M)	3	-			
S2ER-E1RB(M)	-	1			
S2ER-E1R2B(M)	-	2	-	-	
S2ER-E1R3B(M)	-	3			
S2ER-E1RAB(M)	1	1			
S2ER-E1R2AB(M)	2	1			
S2ER-E1RA2B(M)	1	2			
S2ER-E2RA(M)	1	-			
S2ER-E2R2A(M)	2	-			
S2ER-E2R3A(M)	3	-			
S2ER-E2RB(M)	-	1			
S2ER-E2R2B(M)	-	2	-	-	
S2ER-E2R3B(M)	-	3			
S2ER-E2RAB(M)	1	1			
S2ER-E2R2AB(M)	2	1			
S2ER-E2RA2B(M)	1	2			
S2ER-E3RA(M)	1	-			
S2ER-E3RA(M)	2	-			
S2ER-E3R3A(M)	3	-			
S2ER-E3RB(M)	-	1			
S2ER-E3RB-EL 01)	-	1			
S2ER-E3R2B(M)	-	2	-	-	
S2ER-E3R3B(M)	-	3			
S2ER-E3RAB(M)	1	1			
S2ER-E3R2AB(M)	2	1			
S2ER-E3RA2B(M)	1	2			
S2ER-E4RAD(M)	1	-			
S2ER-E4R2AD(M)	2	-	1		
S2ER-E4RBD(M)	-	1	1	-	
S2ER-E4R2BD(M)	-	2			
S2ER-E4RABL(M)	1	1	-	1	
S2ER-E5RA(M)	1	-			
S2ER-E5R2A(M)	2	-			
S2ER-E5R3A(M)	3	-			
S2ER-E5RB(M)	-	1			
S2ER-E5R2B(M)	-	2	-	-	
S2ER-E5R3B(M)	-	3			
S2ER-E5RAB(M)	1	1			
S2ER-E5R2AB(M)	2	1			
S2ER-E5RA2B(M)	1	2			

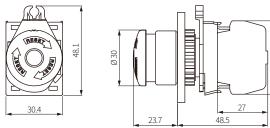
01) Acquired KC (HU02054-20014)

Dimensions

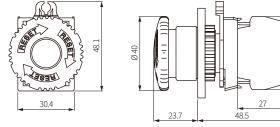
- Unit: mm, For the detailed drawings, follow the Autonics website.
- Panel thickness: \leq 6 mm
- S2ER-E1R (D30 + long head, singular type block)



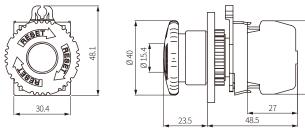
■ S2ER-E2R (D30 + short head, singular type block)



■ S2ER-E3R (D40 + short head, singular type block)

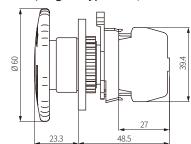


■ S2ER-E4R (D40 + short head, singular type block)



■ S2ER-E5R (D60 + short head, singular type block)





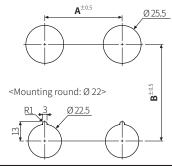
39.4

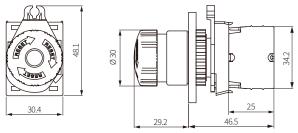
39.4

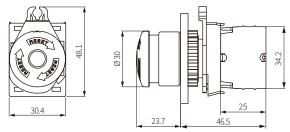
39.4

Panel cut-out

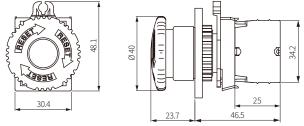
<Mounting round: Ø 25>



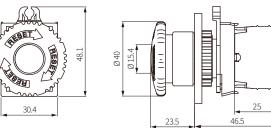




■ S2ER-E3R (D40 + short head, modular type block)

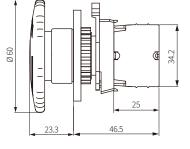


■ S2ER-E4R (D40 + short head, modular type block)



■ S2ER-E5R (D60 + short head, modular type block)





	Α	В
D30	≥ 33	≥ 55
D40	≥ 55	≥ 55
D60	≥ 80	≥ 80

34.2 34.2