Autonics

Ø 16 mm Push Button Switches



S16PR 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

- Compact, space-saving 16 mm installation diameter
- Short rear-length size of only 29.5 mm
- Independent detachable contacts

Series	S16PR Se	S16PR Series			
Actuation distance	3 mm				
Actuation force	0.2 to 0.35	0.2 to 0.35 kgf (2 to 3.5 N)			
Installation	Extended				
Shock	500 m/s ² (*	500 m/s ² (≈ 30 G) in each X, Y, Z direction for 3 times			
Shock (malfunction)	100 m/s ² (*	$100 \text{ m/s}^2 (\approx 10 \text{ G})$ 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)		Returned: ≥ 1 million operations (20 operations/min) Maintained: $\geq 200,000$ operations (20 operations/min)			
Ambient temperature	-15 to 55 °C	C, storage : -25	to 65 °C (no fre	eezing or cond	ensation)
Ambient humidity	35 to 85 %	35 to 85 %RH, storage : 35 to 85 %RH (no freezing or condensation)			
Protection structure	Control un	it: IP65 (IEC sta	andard)		
Approval	CE 01) 🕼 💦				
Control unit weight	Round: ≈	Round: \approx 3.8 g, Square: \approx 4.4 g, Rectangular: \approx 5.1 g			
Housing weight	≈ 1.4 g	≈ 1.4 g			
Contact blocks Power supply/current	250 VAC~	/3A			
Dielectric strength	2,000 VAC-	2,000 VAC \sim 50/60 Hz for 1 minute (between other polarities), 1,000 VAC \sim 50/60 Hz for 1 minute (between same polarities)			
Insulation resistance	≥ 100 MΩ	\geq 100 M Ω (500 VDC= megger)			
Contact resistance	\leq 50 m Ω	(initial)			
Electrical life cycle	≥ 100,000	\geq 100,000 operations (20 operations/min)			
Contact material	AgNi10	AgNi10			
Terminal tensile force	\leq 30 N	≤ 30 N			
Terminal soldering time	At the end	At the end of tips within 3 sec with 350 °C (30 W-soldering machine			
Approval	(F : 🕅))				
Weight	$\approx 1.6 \mathrm{g}$	≈ 1.6 g			
LED blocks					
	5/12/24	5 / 12 / 24 VDC== model			
Rated voltage	0/12/21	Refer to the below Current consumption table.			
Rated voltage Current consumption	Refer to the		nt consumptio	in table.	
			nt consumptio	in abie.	
Current consumption	Refer to the		nt consumptio		
Current consumption Approval	Refer to the		nt consumptio	Yellow	White
Current consumption Approval Weight	Refer to the	EAC			
Current consumption Approval Weight Current consumptions	Refer to the C€ c¶Jus ≈ 1.9 g Red	Blue	Green	Yellow	White 10 to 14 mA 9 to 14 mA

Sold Separately

- Contact blocks (SA□-C□□)
- LED blocks (SA-L-L-)
- Locking handle (SA□-LH)

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

S16PR 0 -	000	6
Control	lunit	Block
Appearance	Button color	
No mark: Round	R: Red	
S: Square	B: Blue	
T: Rectangular	G: Green	
	Y: Yellow	
	W: White	
2 Guard type	G Contact block	
E: None (extended, round)	C: 1 C contact	
H: Half guard (square / rectangular)	2C: 2 C contacts	
J J J ,	3C: 3 C contacts	

Operation

1: Returned 2: Maintained

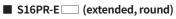
S16PR 0	- 0	3	4	6	6
Со	ntrol unit			Blo	ock
Appearance	4 E	Button co	lor		
No mark: Round	R: R	ed			
S: Square	B: B	lue			
T: Rectangular	G: 0	reen			
	Y: Ye	ellow			
	W: V	Vhite			
Q Guard type	6	ontact b	lock		
E: None (extended, round)	C: 1	C contact			
H: Half guard (square / rectan	gular) 2C:	2 C contad	cts		
Operation	G L	ED block	(
3: Returned	5:5	VDC==			
4: Maintained	12:	12 VDC==			
	24:2	24 VDC==			

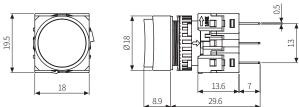
Madal	Contact block	LED block	
Model	C contact	DC voltage	
S16PR-E1 C	1		
S16PR-E1 2C	2	-	
S16PR-E1□3C	3		
S16PR-E2 C	1		
S16PR-E2 2C	2	-	
S16PR-E2 3C	3		
S16PRS-H1□C	1		
S16PRS-H1 2C	2	-	
S16PRS-H1□3C	3		
S16PRS-H2□C	1		
S16PRS-H22C	2	-	
S16PRS-H2□3C	3		
S16PRT-H1□C	1		
S16PRT-H1 2C	2	-	
S16PRT-H1□3C	3		
S16PRT-H2□C	1		
S16PRT-H22C	2	-	
S16PRT-H2 3C	3		

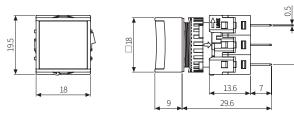
	Contact block	LED block	
Model	C contact	DC voltage	
S16PR-E3 C5		1 (5 VDC==)	
S16PR-E3 C12	1	1 (12 VDC==)	
S16PR-E3 C24		1 (24 VDC==)	
S16PR-E32C5		1 (5 VDC==)	
S16PR-E32C12	2	1 (12 VDC==)	
S16PR-E32C24		1 (24 VDC==)	
S16PR-E4 C5		1 (5 VDC==)	
S16PR-E4 C12	1	1 (12 VDC==)	
S16PR-E4 C24		1 (24 VDC==)	
S16PR-E42C5		1 (5 VDC===)	
S16PR-E42C12	2	1 (12 VDC==)	
S16PR-E4 2C24		1 (24 VDC===)	
S16PRS-H3C5		1 (5 VDC==)	
S16PRS-H3□C12	1	1 (12 VDC==)	
S16PRS-H3C24		1 (24 VDC==)	
S16PRS-H32C5		1 (5 VDC==)	
S16PRS-H32C12	2	1 (12 VDC==)	
S16PRS-H32C24		1 (24 VDC==)	
S16PRS-H4C5		1 (5 VDC===)	
S16PRS-H4 C12	1	1 (12 VDC==)	
S16PRS-H4 C24		1 (24 VDC==)	
S16PRS-H42C5		1 (5 VDC==)	
S16PRS-H42C12	2	1 (12 VDC==)	
S16PRS-H422C24		1 (24 VDC==)	
S16PRT-H3C5		1 (5 VDC==)	
S16PRT-H3 C12	1	1 (12 VDC==)	
S16PRT-H3C24		1 (24 VDC===)	
S16PRT-H32C5		1 (5 VDC==)	
S16PRT-H32C12	2	1 (12 VDC==)	
S16PRT-H32C24		1 (24 VDC==)	
S16PRT-H4C5		1 (5 VDC==)	
S16PRT-H4C12	1	1 (12 VDC==)	
S16PRT-H4 C24		1 (24 VDC==)	
S16PRT-H42C5		1 (5 VDC==)	
S16PRT-H42C12	2	1 (12 VDC===)	
S16PRT-H422C24		1 (24 VDC==)	

Dimensions

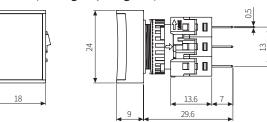
- Unit: mm, For the detailed drawings, follow the Autonics website.
- Panel thickness: \leq 3.5 mm







■ S16PRT-H (rectangular, half guard)

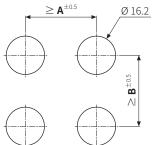


Terminal pin





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	A	В
Round	20	21
Square	20	21
Rectangular	25	21