

Industrial control socket installation type

KS32(DC) Solid State Relay



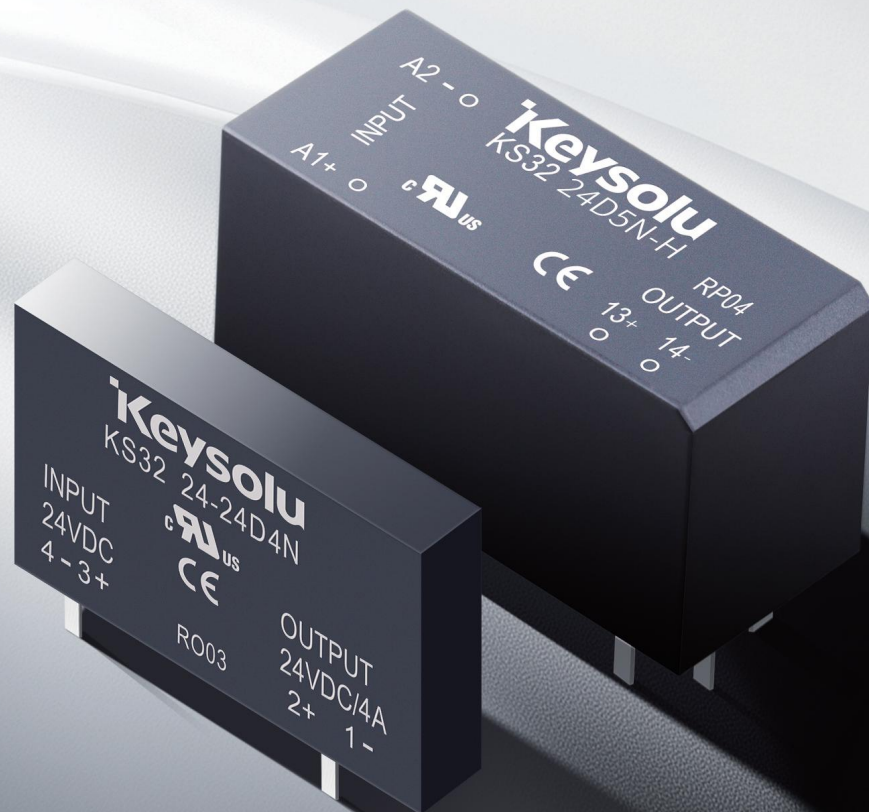
Ultra-thin (5.2mm) DIN rail installation



Max DC load **6A**



Compatible with standard packaged
electromagnetic relay pins



Application Scenarios:

Widely used in medical devices, communication equipment, lithium batteries, lasers, and industrial robots.



DESCRIPTION

KS32 is a set of SPST-NO DC output PCB or Socket mount Mini type SSR. The SSR has three DC input options 12VDC, 24VDC and 60VDC for selection and provides 2500Vrms photoelectric isolation between input and output. Pins of the SSR are fully compatible with standard packaged electromechanical relays, thus it will be very convenient for users to install and use.

- ❑ Mini type SSR, PCB or socket mount
- ❑ TTL and CMOS compatible
- ❑ Photoelectric isolation, dielectric strength 2500VAC
- ❑ I/O modules for interface between PLC and input devices or loads
- ❑ Pin-compatible with standard package EMR

SELECTION GUIDE

KS32/	24-	24D	4	N	-H	(XXX)
Type	Control voltage	Load voltage	Load current	RC snubber	Mounting mode	Customer special code
	12:12VDC 24:24VDC 60:60VDC	24D:24VDC 48D:48VDC	4:4A (Vertical) 5:5A (Horizontal) 6:6A (Vertical)	N:Not included	H:Horizontal Nil:Vertical	

Note:

1. Only below specifications are available: KS32/□ □-24D4N, KS32/□ □-48D4N, KS32/□ □-24D5N-H, KS32/□ □-48D5N-H, KS32/□ □-24D6N, KS32/□ □-48D6N.

2. KS32 6A products, include KS32/□ □-24D6N and KS32/□ □-48D6N have not yet obtained UL certification.

■ SELECTION GUIDE (Ta=25°C)

Control voltage range	12	(9.6 ~ 14.4)VDC
	24	(19.2 ~ 28.8)VDC
	60	(48 ~ 72)VDC
Must turn-on voltage	12	9.6VDC
	24	19.2VDC
	60	48VDC
Must turn-off voltage	12	3VDC
	24	9VDC
	60	20VDC
Max. input current	25mA	
Max. reverse protection voltage	12	-14.4VDC
	24	-28.8VDC
	60	-72VDC

■ OUTPUT SPECIFICATIONS (Ta=25°C)

Load voltage range	24D□	(3 ~ 28.8)VDC
	48D□	(3 ~ 57.6)VDC
Max. transient voltage	24D□	33VDC
	48D□	58VDC
Load current range	□□ D4	(0.02 ~ 4)A
	□□ D5	(0.02 ~ 5)A
	□□ D6	(0.02 ~ 6)A
Max. surge current (10ms)	□□ D4	48A _{pk}
	□□ D5, □□ D6	60A _{pk}
Max. off-state leakage current	100μA	
Max. on-state voltage drop	□□ D4	0.35VDC
	□□ D5, □□ D6	0.2VDC
Max. turn-on time	50μs	
Max. turn-off time	300μs	

■ GENERAL SPECIFICATIONS (Ta=25°C)

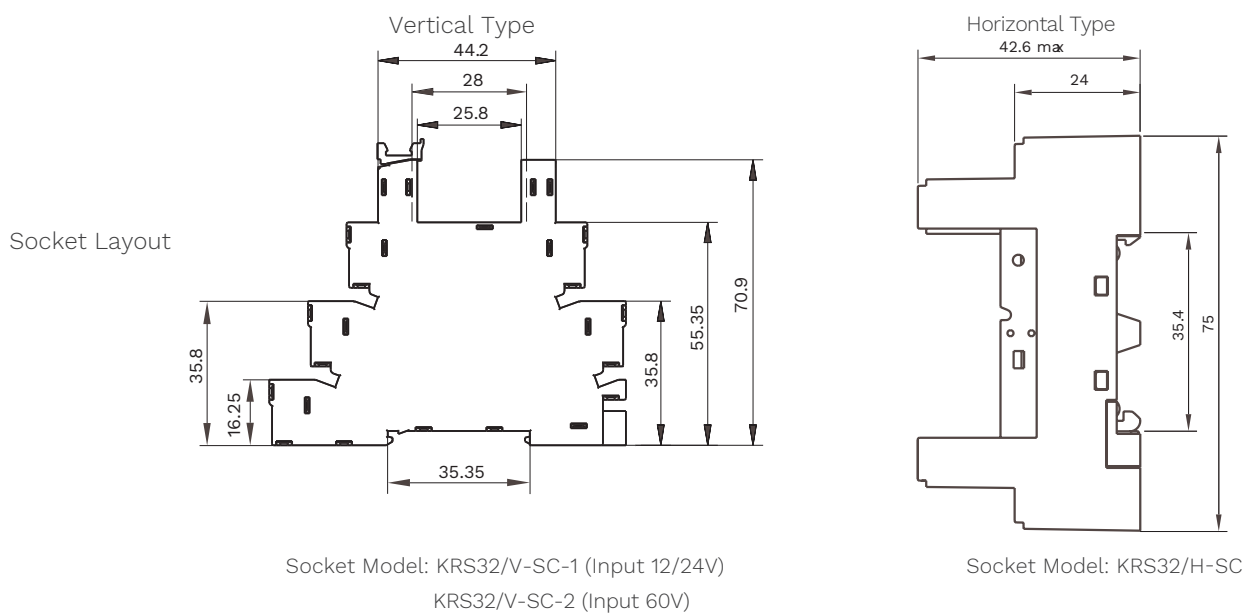
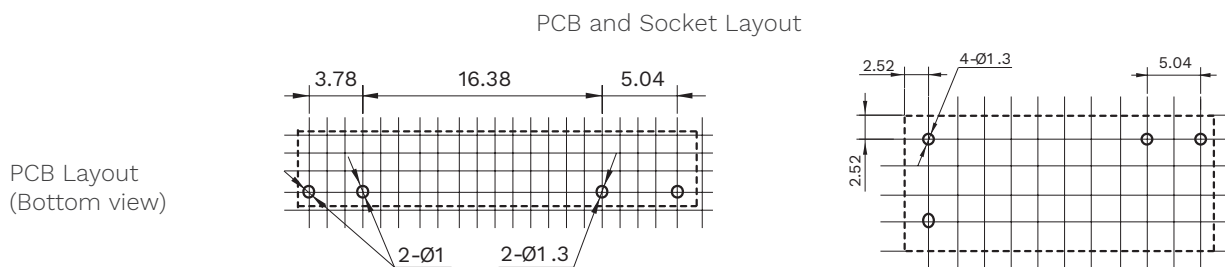
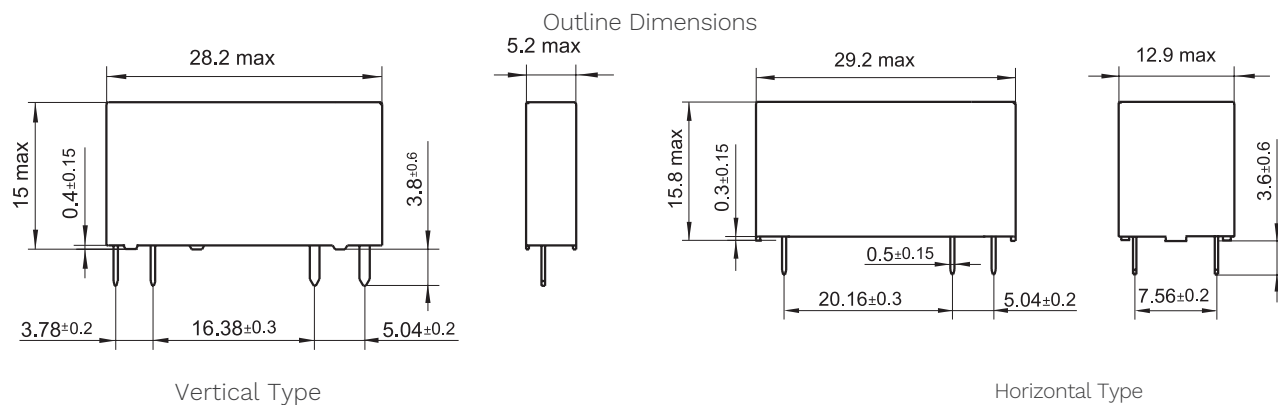
Dielectric strength (input/output)	2500VAC, 1min	
Insulation resistance	1000MΩ (500VDC)	
Max. capacitance (input/output)	5pF	
Vibration resistance	10~ 55Hz, 1.5mm, DA	
Ambient temperature	Operating temperature	-30 ~ 80°C
	Storage temperature	-30 ~ 100°C
Ambient humidity	45% ~ 85% RH	
Unit weight	Horizontal type approx. 11g, vertical type approx. 4g	
Shock resistance	Acceleration 980m/s ² , continuous surge 6ms	

■ PRECAUTIONS

1. Soldering must be completed within 10s at 260°C or 5s at 350°C.
2. The SSR's case serves to dissipate the heat generated by the SSR itself. If poor ventilation is unavoidable, the load current must be derated. Please refer to the curve of Max. Load Current vs. Ambient Temperature for derating.
3. Please do not use the SSR exceeding the limitation which is specified on this datasheet.

■ OUTLINE DIMENSIONS, WIRING DIAGRAM OUTLINE

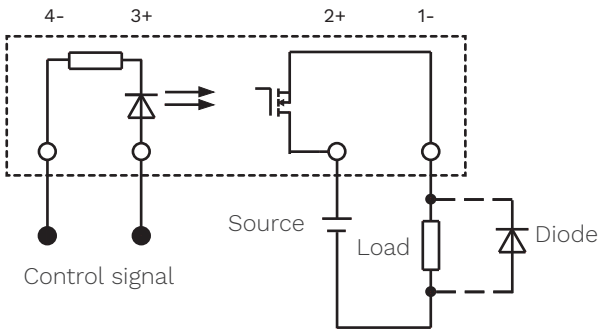
Unit: mm



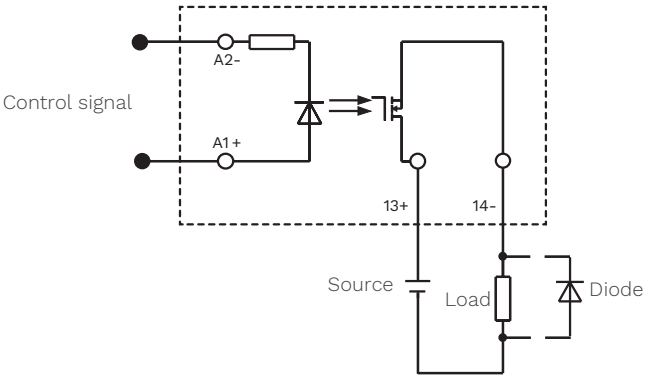
■ OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

Wiring Diagram



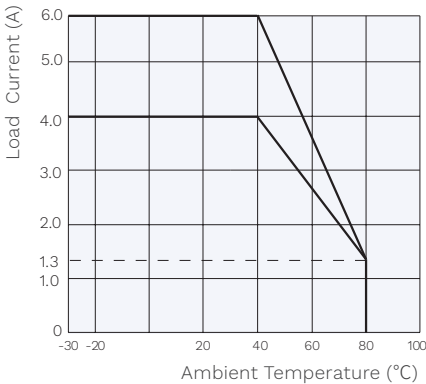
Vertical Type



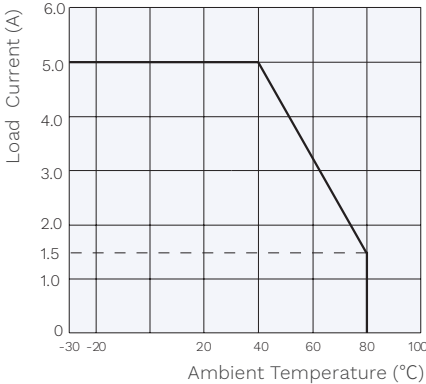
Horizontal Type

■ CHARACTERISTIC CURVES

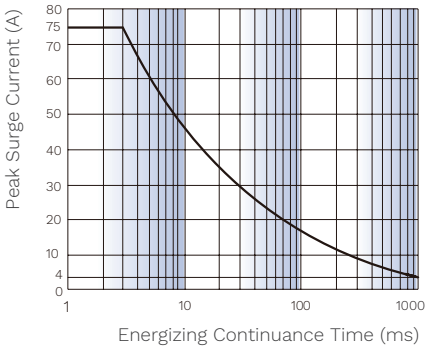
Max. Load Current vs. Ambient Temperature
KS32/□□-□□D4N Type
KS32/□□-□□D6N Type



Max. Load Current vs. Ambient Temperature
KS32/□□-□□D5N-H Type



Max. Permissible Non-repetitive
Peak Surge Current vs. Continuance Time
KS32/□□-□□D4N Type



Max. Permissible Non-repetitive
Peak Surge Current vs. Continuance Time
KS32/□□-□□D5N-H Type
KS32/□□-□□D6N Type

