



DESCRIPTION

KS32 is a set of SPST-NO DC output PCB or Socket mount Mini type SSR. The SSR has five DC input options 5VDC, 12VDC, 24VDC, 48VDC 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.

FEATURES

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

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.

SELECTION GUIDE

KS32 /	24-	24D	3	N	-H	(XXX)
Type	Control voltage	Load voltage	Load current	RC snubber	Mount mode	Customer special code
5: 5VDC	24D: 24VDC	3: 3A (Vertical)	N: Not included	H: Horizontal		
12: 12VDC	48D: 48VDC	4: 4A (Vertical)		Nil: Vertical		
24: 24VDC		5: 5A (Horizontal)				
48: 48VDC						
60: 60VDC						

Note: Only below specifications are available: KS32/□ □-24D3N, KS32/□ □-24D4N, KS32/□ □-48D3N, KS32/□ □-24D5N-H.

INPUT SPECIFICATIONS (Ta = 25°C)

Control voltage range	5	4 ~ 6VDC
	12	9.6 ~ 14.4VDC
	24	19.2 ~ 28.8VDC
	48	38.4 ~ 57.6VDC
	60	48 ~ 72VDC
Must turn-on voltage	5	4VDC
	12	9.6VDC
	24	19.2VDC
	48	38.4VDC
	60	48VDC
Must turn-off voltage	5	1VDC
	12	3VDC
	24	9VDC
	48	10VDC
	60	20VDC
Max. input current		25mA
Max. reverse protection voltage	5	-6VDC
	12	-14.4VDC
	24	-28.8VDC
	48	-57.6VDC
	60	-72VDC

OUTPUT SPECIFICATIONS (TA = 25°C)

Load voltage range	24D□	3 ~ 28.8VDC
	48D□	3 ~ 57.6VDC
Max. transient voltage	24D□	33VDC
	48D□	58VDC
Load current range	24D3	0.02 ~ 3A
	24D4	0.02 ~ 4A
	24D5	0.02 ~ 5A
	48D3	0.02 ~ 3A
Max. surge current (10ms)	24D3	48Apk
	24D4	48Apk
	24D5	60Apk
	48D3	30Apk
Max. off-state leakage current		100µA

OUTPUT SPECIFICATIONS (Ta = 25°C)

	24D3	0.2VDC
Max. on-state voltage drop	24D4	0.35VDC
	24D5	0.2VDC
	48D3	0.35VDC
Max. turn-on time		50μs
Max. turn-off time		300μs

PCB Mount

Panel Mount

DIN Rail Mount

Motor Reversing
Module

Intelligent SSR

SSR Accessories

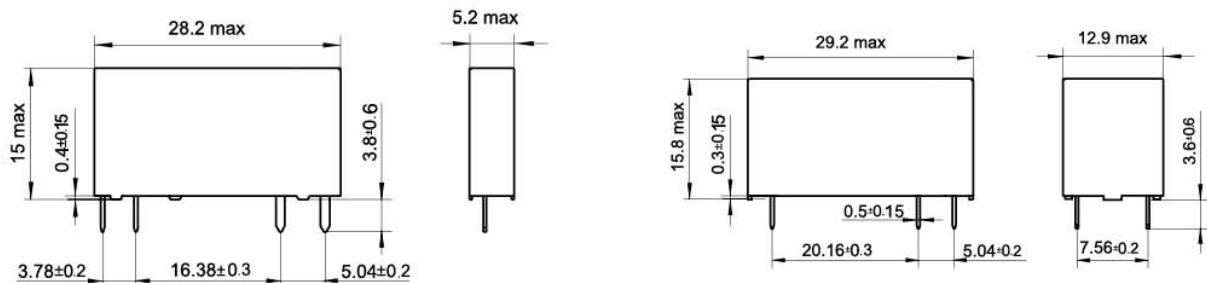
GENERAL SPECIFICATIONS (Ta = 25°C)

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/s², continuous surge 6ms	

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB LAYOUT

Unit: mm

Outline Dimensions



Vertical Type

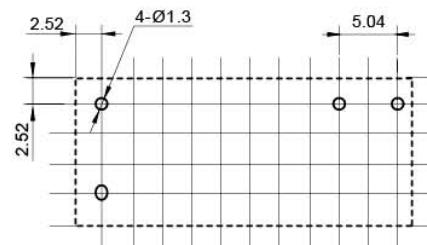
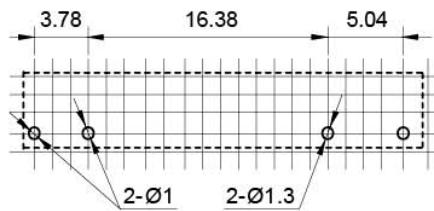
Horizontal Type

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB LAYOUT

Unit: mm

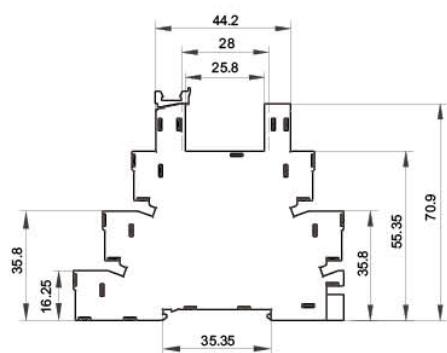
PCB and Socket Layout

PCB Layout
(Bottom view)



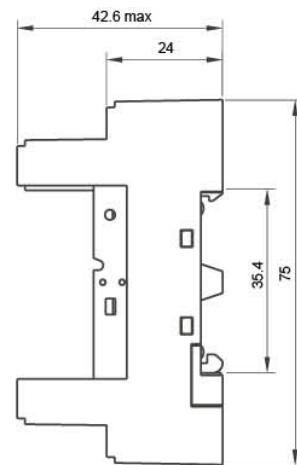
Vertical Type

Socket Layout



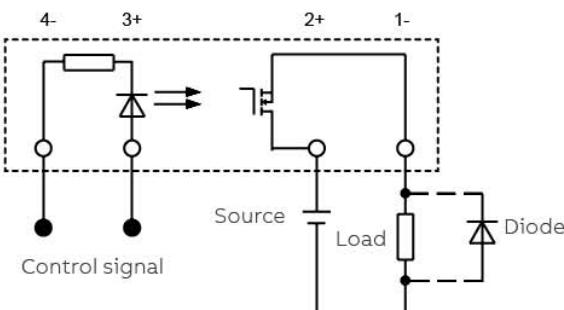
Socket Model: KRS32/V-SC-1 (Input 5/12/24V)
KRS32/V-SC-2 (Input 60V)

Horizontal Type

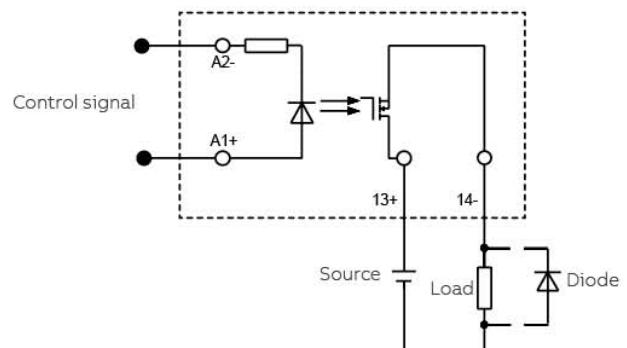


Socket Model: KRS32/H-SC

Wiring Diagram



Vertical Type



Horizontal Type

CHARACTERISTIC CURVES

