



SIL SERIES

HI-VOLTAGE REED RELAY



KEY FEATURES

- Insulation coil to contact up to 4KVDC
- Internal magnetic shield on all relays
- High dielectric strength up to 4KVDC or higher

ORDER CODE

SIL - 1AXXDX

(a) (b) (c) (d)

(a) Contact Form: 1A = 1 Form A

(b) Nominal Coil Voltage: 05 = 5VDC, 12 = 12VDC, 24 = 24VDC

(c) Nil = NO Diode, D = Diode

(d) Nil: Standard, H: High Voltage, L: Long Life High Voltage, U: Ultra High Voltage

COIL DATA-STANDARD TYPE 1 FORM A (at 20°C)

NOMINAL VOLTAGE DC $\pm 10\%$ [V]	COIL RESISTANCE $\pm 10\%$ [Ω]	NOMINAL COIL POWER [mW]	MUST RELEASE VOLTAGE MIN. [V] @ 20°C	MUST OPERATE VOLTAGE MAX. [V] @ 20°C
05	220	114	0.5	4
05-L	180	139	0.5	4
12	500	288	1.2	9.0
24	2000	288	2.4	16.8

CONTACT SPECIFICATIONS (at 20°C)

ITEM	PERFORMANCE CHARACTERISTICS			
Relay Model	SIL - 1AXX	SIL - 1AXXH	SIL - 1AXXL	SIL - 1AXXU
Contact Rating	100W	100W	100W	100W
Switching Voltage	300VAC / 350VDC	1000VDC	1000VDC	1000VDC
Max. Switching Current	1.0A	1.0A	1.0A	1.0A
Max. Carry Current	2.5A	2.5A	2.5A	2.5A
Contact Resistance	150m Ω	150m Ω	150m Ω	150m Ω
Dynamic Contact Resistance	200m Ω	200m Ω	200m Ω	200m Ω
Breakdown Voltage	4KVDC	4KVDC	4KVDC	4KVDC
	3KVDC	3KVDC	3KVDC	4KVDC

ELECTRICAL SPECIFICATIONS

ITEM		PERFORMANCE CHARACTERISTICS			
Relay Model		SIL - 1AXX	SIL - 1AXXH	SIL - 1AXXL	SIL - 1AXXU
Insulation Resistance	Open Contacts	1x10 ¹⁰ Ω	1x10 ¹³ Ω	1x10 ¹³ Ω	1x10 ¹³ Ω
	Contacts to Coil	1x10 ¹⁰ Ω	1x10 ¹² Ω	1x10 ¹² Ω	1x10 ¹² Ω
Capacitance (typ.)	Open Contacts	0.5pF	0.2pF	0.2pF	0.2pF
Operate Time		0.6mS	1.0mS	1.0mS	1.0mS
Release Time		0.25mS	0.25mS	0.25mS	0.25mS

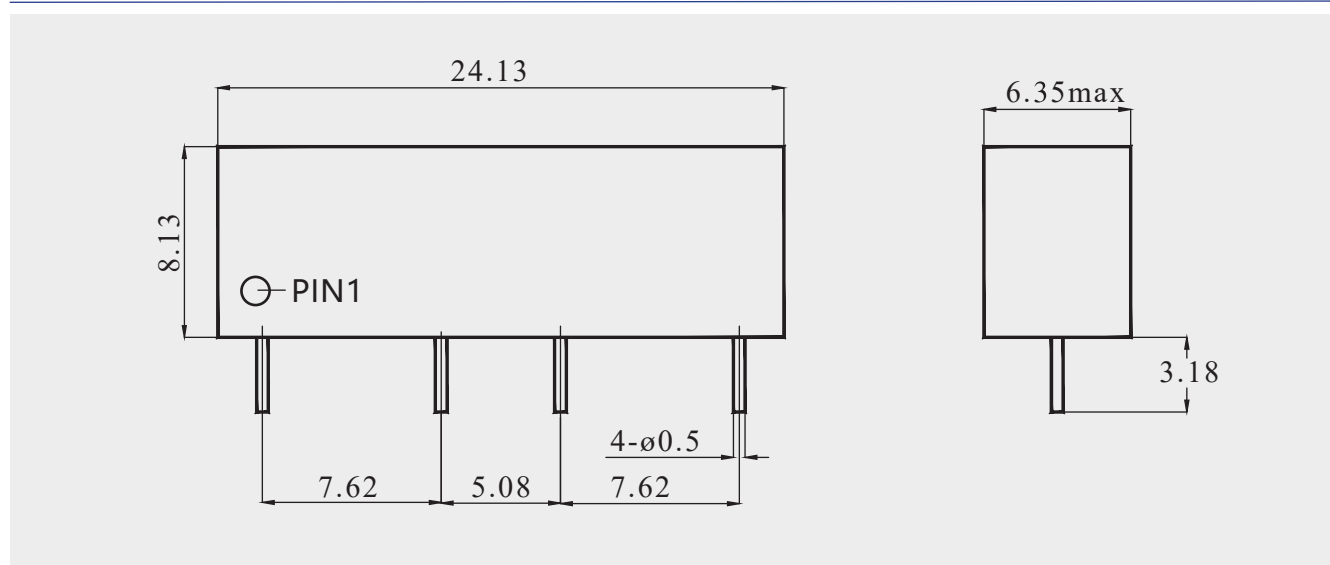
MECHANICAL SPECIFICATIONS

Relay Model	SIL - 1AXX	SIL - 1AXXH SIL - 1AXXL SIL - 1AXXU
Vibration	20G (10-2000Hz)	20G (10-2000Hz)
Shock	30G	50G

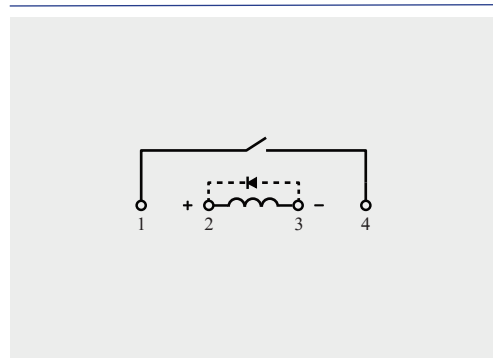
ENVIRONMENTAL

Relay Model	SIL - 1AXX	SIL - 1AXXH SIL - 1AXXL SIL - 1AXXU
Operating Temp.	-40°C~+85°C	-40°C~+85°C
Storage Temp.	-40°C~+95°C	-40°C~+95°C
Life Expectance	1KVDC, 1mA, 1X10 ⁶	5V, 10mA, 5X10 ⁶

DIMENSIONS (Unit: mm)



WIRING DIAGRAMS (Top View)



PIN OUT (Top View)

