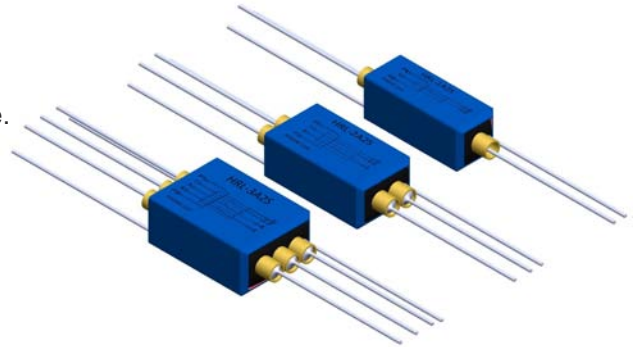


HRL Series

1a, 2a, 3a Hi-Voltage Reed Relay

Features

- Ultra reed relay.
- High reliability, hermetically sealed contacts for long life.
- External magnetic and electrostatic shield.



Order Code

HRL-XX X X-X-X
 a b c d e

a : Contact Form : 1A=1 Form A, 2A=Form A, 3A=Form A
 b : Nominal Coil Voltage : 1=24VDC, 2=12VDC, 4=5VDC
 c : Nil=No Electrostatic Shield, S=Electrostatic Shield
 d : Nil=Standard Type=500VDC, 1=1KV, 3=3KV, 4=4KV
 e : Insulation Resistance : Nil=10¹⁰, 11=10¹¹, 12=10¹², 13=10¹³

Coil Data-Standard Type (at 20°C)

Part Number	Nominal Voltage DC ±10% [V]	Coil Resistance ±10% [ohm]	Nominal Current [mA]	Must Release Voltage MIN. [V] at 20°C	Must Operate Voltage MAX. [V] at 20°C
HRL-1A HRL-2A	5	100	50.0	0.5	4.0
	12	400	30.0	1.2	8.8
	24	1600	15.0	2.0	18.0
HRL-3A	05	50	100.0	0.5	4.0
	12	300	40.0	1.2	8.8
	24	800	30.0	2.0	18.0

Contact Rating

Relay Model	HRL-XXXS	HRL-XXXS-1	HRL-XXXS-3	HRL-XXXS-4	
Contact Rating Max DC / Peak AC	50 W	100 W	100 W	100 W	
Switching Voltage Max DC / Peak AC	300VAC / 350VDC	300VAC / 350VDC	1000 VDC	1000 VDC	
Max. Switching Current Max DC / Peak AC	1.0 A				
Max. Carry Current	2.5 A				
Contact Resistance	150mΩ				
Dielectric Strengths(static)	Between contacts	500 VDC	1000 VDC	3000 VDC	4000 VDC
	Contacts to shield	2500 VDC	2500 VDC	2500 VDC	2500 VDC
	Contacts / shield to coil	2500 VDC	2500 VDC	2500 VDC	2500 VDC

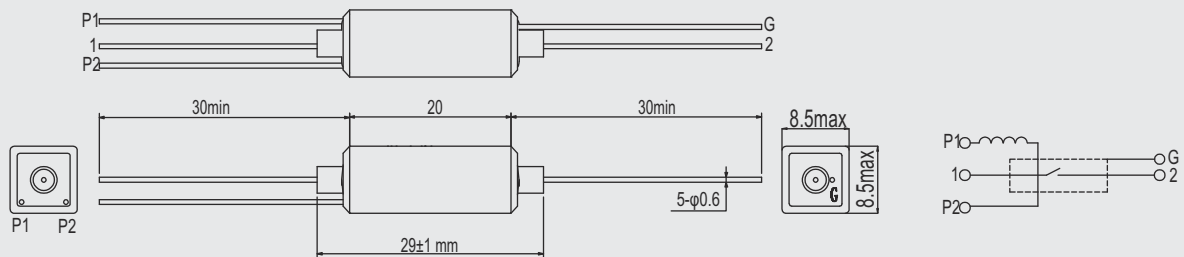
Specification

Relay Model	HRL-XXXS	HRL-XXXS-1	HRL-XXXS-3	HRL-XXXS-4
Electrostatic Capacitance	0.5 pF	0.5 pF	0.5 pF	0.5 pF
Insulation Resistance (except shield to coil)	$10^{10}\Omega$	$10^{10}\Omega$	$10^{10}\Omega$	$10^{10}\Omega$
Operate Time	0.6 ms	0.6 ms	1.0 ms	1.0 ms
Release Time	0.05 ms	0.05 ms	01 ms	0.1 ms
Vibration	20G (0~2000Hz)	20G (0~2000Hz)	20G (0~2000Hz)	20G (0~2000Hz)
Shock	30G (11mS.1/2Sin Wave)	30G (11mS.1/2Sin Wave)	50G (11mS.1/2Sin Wave)	50G (11mS.1/2Sin Wave)
Operating Temperature	-10°C~+60°C			
Storage Temperature	-10°C~+80°C			
Life Expectancy	AC / DC 10mV-10 μ A 1X10 ⁸ Ops	200VDC 1mA 1X10 ⁷ Ops	5VDC 10mA 500X10 ⁶ Ops	5VDC 10mA 500X10 ⁶ Ops

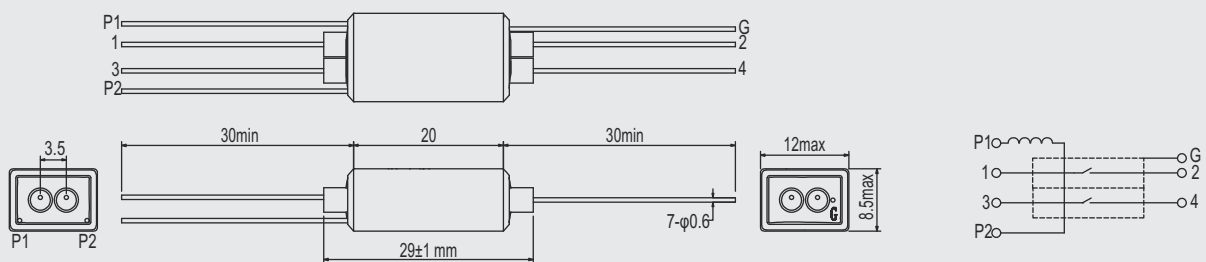
Dimensions (Unit : mm)

Wiring Diagrams (Top View)

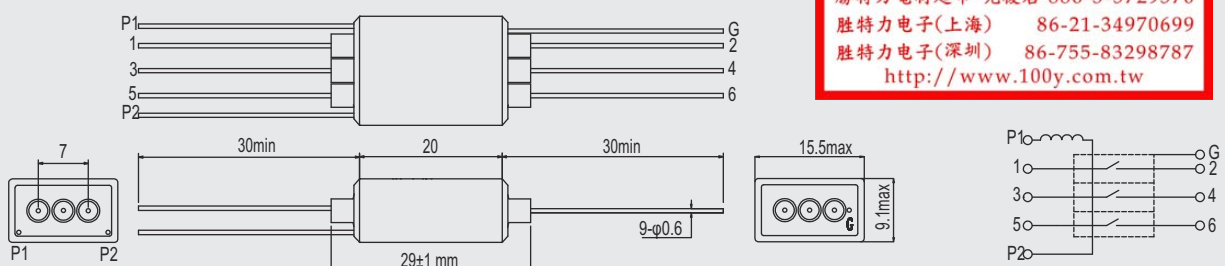
HRL-1A



HRL-2A



HRL-3A



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