



HIR Series Reed Relays:

Teledyne High Isolation Reed Relays are designed to withstand 3000Vdc between contacts. It is designed in a PCB mountable form factor. These plastic package relays provide the consistent switching performance of a high voltage sealed reed switch in a convenient lightweight form factor.

Features:

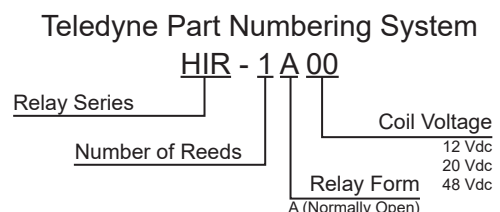
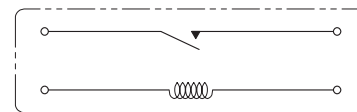
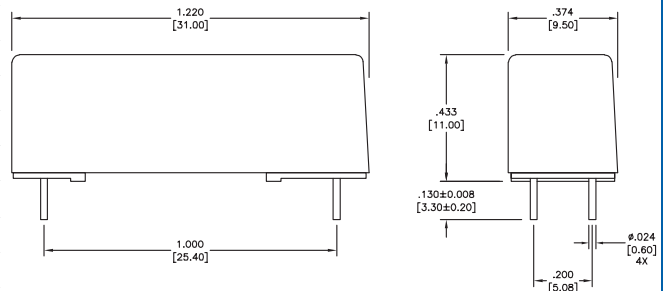
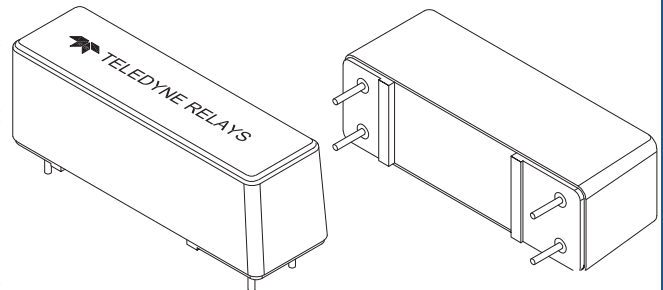
- High Isolation between open contacts
- Hermetically sealed contacts
- Lightweight Plastic Package



Applications:

- Medical Equipment
- Power Generation/Conversion
- Power Protection Circuits
- Automated Test Equipment
- Motor Controllers & Inductive Loads

Specifications			HIR-1A		
Parameters	Test Conditions	Units	1 Form A		
Coil Characteristics					
Coil Voltage	Nominal Maximum	Vdc	12 16	20 25	48 60
Coil Resistance	+/- 10%, 20°C	Ω	530	1.7k	12k
Operate Voltage	Must Operate by	Vdc Max	8.4	14.5	35
Release Voltage	Must Release by	Vdc Min	0.7	1.9	4.8
Contact Characteristics					
Contact Material			Rhodium		
Switching Voltage	Max DC/Peak AC	Volts	350/300		
Switching Current	Max DC/Peak AC	Amps	1		
Carry Current	Max DC/Peak AC	Amps	2.5		
Contact Rating	Max DC/Peak AC	Watts	100		
Contact Resistance	Maximum	Ω	0.1		
Relay Characteristics					
Insulation Resistance	Minimum	Ω	10 ¹⁰		
Reed Breakdown Voltage	Minimum	Vdc	1000		
Dielectric Strengths	Between Contacts	Volts	1000		
	Coil to Contact		3000		
	Case to Contact		3000		
	Case to Coil		3000		
Electrical Clearance	Minimum	Inches	0.177		
Operate Time, Typical (bounces included)	At Nominal Coil Voltage	mSec	1.5		
Release Time, Typical		mSec	0.1		
Life Expectancy					
Low Load	Minimum	Ops	2×10 ⁸		
Mechanical Life	Minimum	Ops	10 ⁹		
Environmental Characteristics					
Storage Temperature		°C	-40 ~ +100		
Operating Temperature		°C	-40 ~ +85		
Vibration	10 - 1000 Hz	G	20		
Shock	11 mSec	G	30		
Resonance Frequency		Hz	2500		
Weight	Maximum	Oz	0.159		



Please feel free to contact us for more information regarding additional options and custom configurations.