TELEDYNE RELAYS
Everywhereyoulook™

SIP Series Reed Relays:

Reed Switch Relays provide both the consistency and reliability of a sealed reed switch with the convenience of Single-In-Line-Package Relay. The industry standard 7 pin SIL Package allows these relays to be soldered directly into a PCB or inserted into sockets for convenient replacement. Rhodium contacts are hermetically sealed in glass, mounted on an integral lead frame, then encapsulated in thermoset plastic for easy handling.
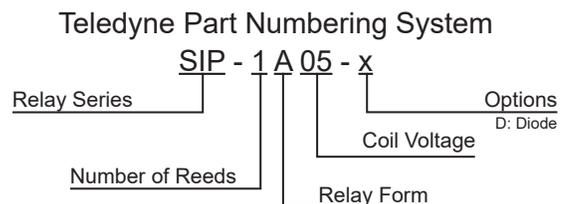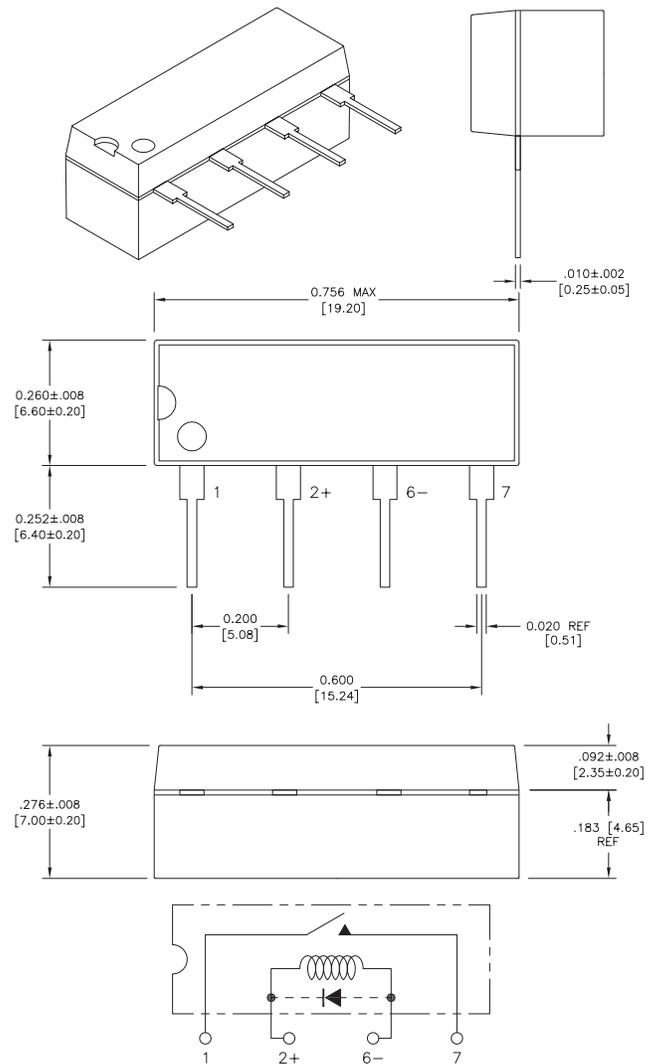
Features:
- Hermetically Sealed Contacts
- Industry standard SIL Package
- Long Life: > 100,000,000 actuations

Applications:
- Automated Test Equipment
- Remote Sensing/Measurement
- Telecommunications
- Security/Access Control
- Industrial Control Systems

RoHS

ISO 9001 CERTIFIED

Specifications — SIP-1A05

Parameters	Test Conditions	Units	1 Form A
Coil Characteristics			
Coil Voltage	Nominal / Maximum	Vdc	5 / 16
Coil Resistance	+/- 10%, 20°C	Ω	500
Operate Voltage	Must Operate by	Vdc Max	3.75
Release Voltage	Must Release by	Vdc Min	0.8
Contact Characteristics			
Contact Material			Rhodium
Operate Position			Any
Switching Voltage	Max DC/Peak AC	Volts	100
Switching Current	Max DC/Peak AC	Amps	0.5
Carry Current	Max DC/Peak AC	Amps	1
Contact Rating	Max DC/Peak AC	Watts	10
Switching Frequency	Maximum	Hz	200
Contact Resistance	Maximum	Ω	0.15
Relay Characteristics			
Insulation Resistance	Minimum	Ω	10^{10}
Dielectric Strengths	Contacts to Coil	Volts	750
Operate Time, Typical (bounces included)	At Nominal Coil Voltage	mSec	0.30
Release Time, Typical (without diode)		mSec	0.05
Life Expectancy			
Low Load	Minimum	Ops	10^7
Rated Load	Minimum	Ops	5×10^6
Mechanical Life	Minimum	Ops	10^8
Environmental Characteristics			
Storage Temperature		°C	-40 ~ +105
Operating Temperature		°C	-40 ~ +85
Vibration	30 - 2000 Hz	G	30
Shock	11 mSec	G	20
Thermal Resistance		°C/W	85

Teledyne Part Numbering System

SIP - 1 A 05 - x

- Relay Series
- Number of Reeds
- Relay Form
- Coil Voltage
- Options — D: Diode

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