



DIP Series Reed Relays:

Reed Switch Relays provide both the consistency and reliability of a sealed reed switch with the convenience of Dual-In-Line-Package Relay. The industry standard 14 pin DIL Package allows these relays to be soldered directly into a PCB or inserted into sockets for convenient replacement. Rhodium switch contacts are hermetically sealed in glass, mounted on an integral lead frame, then encapsulated in thermoset plastic for easy handling. These Relays are available in multiple contact forms, with several coil voltages and with/without an internal suppression diode.

Features:

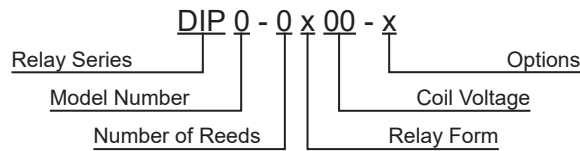
- Hermetically Sealed Contacts
- Industry standard DIL Package
- Multiple contact forms: 1A, 1B, 1C, 2A
- Multiple coil voltages
- Long Life: > 1,000,000,000 actuations
- Operating Temperature: -40 to +70 °C



Applications:

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

Teledyne Part Numbering System



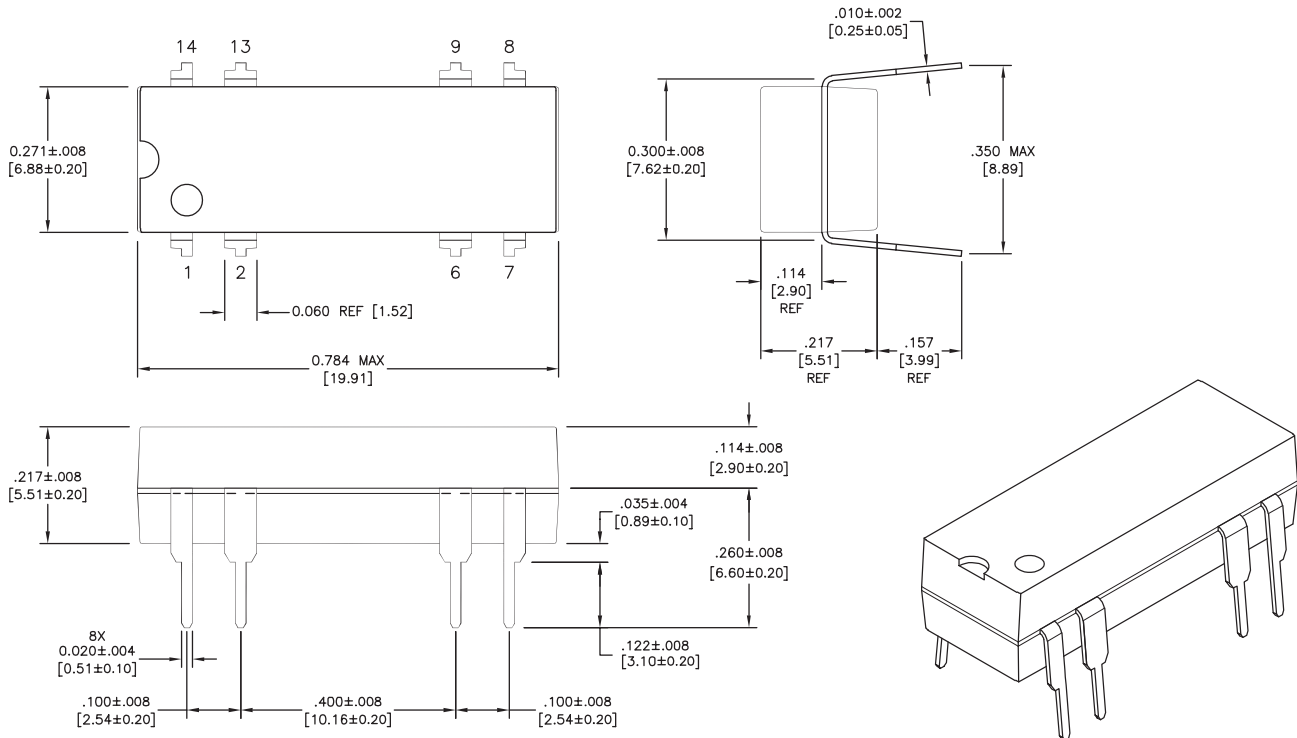
Relay Series:	Model Number:	Number of Reeds:	Relay Form:	Coil Voltage ³ :	Options:
DIP	1: Default Wiring 2: Alternative Wiring ¹	1 or 2 ²	A (Normally Open) B (Normally Closed) C (SPDT)	05 Vdc 12 Vdc 15 Vdc 24 Vdc	D: Diode ⁴

1: Alternative wiring is only available on 1 Form A reed relays.

2: 2 reeds option is only available on Form A reed relays.

3: Not available on all relay forms. Please visit next page for more detail.

4: Diode option may not be available on all relay models and forms. Please contact us for more detail on possible combinations.



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



Specifications			DIP1-1A			DIP2-1A			DIP1-2A			DIP1-1B		DIP1-1C			
Parameters	Test Conditions	Units	1 Form A			1 Form A			2 Form A			1 Form B		1 Form C			
Coil Characteristics																	
Coil Voltage	Nominal Maximum	Vdc	5 16	12 20	24 32	5 16	12 20	5 9	12 20	24 32	5 6	12 14.5	5 11	12 20	15 22	24 32	
Coil Resistance	+/- 10%, 20°C	Ω	500	1000	2150	500	1000	200	500	2150	500	1000	200	500	850	2150	
Operate Voltage	Must Operate by	Vdc Max	3.75	9	18	3.75	9	4.2	9	18	4.2	9	3.75	9	11.5	18	
Release Voltage	Must Release by	Vdc Min	1	1	2	1	1	1	1	2	0.6	1	0.8	1	4	2	
Contact Characteristics																	
Contact Material			Rhodium			Rhodium			Rhodium			Rhodium		Rhodium			
Operate Position			Any			Any			Any			Any		Any			
Switching Voltage	Max DC/Peak AC	Volts	100			100			100			100		100			
Switching Current	Max DC/Peak AC	Amps	0.5			0.5			0.5			0.5		0.25			
Carry Current	Max DC/Peak AC	Amps	1			1			1			1		0.5			
Contact Rating	Max DC/Peak AC	Watts	10			10			10			10		3			
Switching Frequency	Maximum	Hz	200			200			200			200		150			
Contact Resistance	Maximum	Ω	0.15			0.15			0.15			0.15		0.15			
Relay Characteristics																	
Insulation Resistance	Minimum	Ω	10 ¹⁰			10 ¹⁰			10 ¹⁰			10 ¹⁰		10 ¹⁰			
Dielectric Strengths	Contacts to Coil Between Contacts	Vdc	1400 200			750			1400 200			1400 200		1400 150			
Operate Time, Typical (bounces included)	At Nominal Coil Voltage	mSec	1			1			1			1		1.5			
Release Time, Typical (without diode)		mSec	0.05			0.05			0.05			0.05		2			
Life Expectancy																	
Low Load	Minimum	Ops	10 ⁷			10 ⁷			10 ⁷			10 ⁷		5×10 ⁷			
Rated Load	Minimum	Ops	10 ⁶			10 ⁶			10 ⁶			10 ⁶		2×10 ⁶			
Mechanical Life	Minimum	Ops	10 ⁹			10 ⁹			10 ⁹			10 ⁹		10 ⁹			
Environmental Characteristics																	
Storage Temperature		°C	-40 ~ +105			-40 ~ +105			-40 ~ +105			-40 ~ +105		-40 ~ +105			
Operating Temperature		°C	-40 ~ +70			-40 ~ +85			-40 ~ +70			-40 ~ +70		-40 ~ +70			
Vibration	30 - 2000 Hz	G	30			30			30			30		30			
Shock	11 mSec	G	20			20			20			20		20			
Thermal Resistance		°C/W	85			85			85			85		85			

Top View:

