Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Standex-Meder Electronics
DIL-CL-1A81-9-13M

For any questions, you can email us directly:
sales@integrated-circuit.com

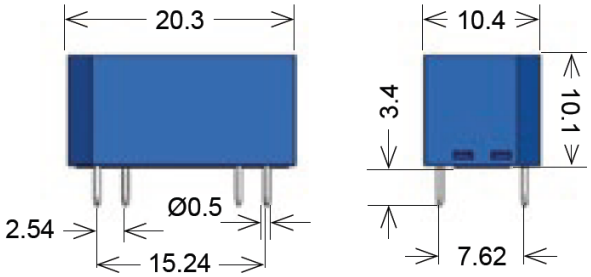
Standex MEDER ELECTRONICS

Custom Engineered Solutions for Tomorrow

A Global Leader in the Design, Development, and Manufacture of Sensor and Magnetic Components

Series Datasheet – DIL Reed Relays www.standexmeder.com

DIL Series Reed Relays



- Features Compatible with 14 pin DIL socket, High resistance coil up to 11 kOhm available
- Available with Dielectric Strength 4.25kVDC, Diode, Magnetic Shield & Others
- Markets: General purposes, Telecommunications, Test and Measurement & Others

Part Description: DIL 00-0X00-00X

Nominal Voltage	Contact QTY	Contact Form	Switch Model	Pin Out	Option () Version with Magnetic Shield
05, 12, 24	1, 2, 4	A, C	66, 75, 88, 90	13, 15, 21, 51, 62, 63	L(M), D(Q), E(R), F(S)

Customer Options	Switch Model				Unit
Contact Data	**66**	**75**	**88**	**90**	
Rated Power (max.) Any DC combination of V&A not to exceed their individual max.'s	10	10	50	10	W
Switching Voltage (max.) DC or peak AC	200	500	500	175	V
Switching Current (max.) DC or peak AC	0.5	0.5	2	0.5	A
Carry Current (max.) DC or peak AC	1.0	1.0	2	1.0	A
Contact Resistance (max.) @ 0.5V & 50mA	150	200	80	150	mOhm
Breakdown Voltage (min.) According to EN60255-5	0.225	1.5	1.5	0.2	kVDC
Operating Time (max.) Incl. Bounce; Measured with w/ Nominal Voltage	0.5	0.5	1.2	0.7	ms
Release Time (max.) Measured with no Coil Excitation	0.1	0.1	1.0	1.5	ms
Insulation Resistance (typ.) Rh<45%, 100V Test Voltage	10^{10}	10^{10}	10^{11}	10^{9}	GOhm
Capacitance (typ.) @ 10kHz across open Switch	0.2	0.4	0.3	1.0	pF

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Coil Data		Coil Voltage (nom.)	Coil Resistance (typ.)	Pull-In Voltage (max.)	Drop-Out Voltage (min.)	Nominal Coil Power (typ.)
Contact Form	Switch Model					
Unit		VDC	Ohm	VDC	VDC	mW
1A	66, 72, 75, 88	05	450	3.5	0.75	55
		12	1,800	8.4	1.8	80
		24	4,500	16.8	3.6	130
2A	66, 72, 75, 88	05	200	3.5	0.75	125
		12	680	8.4	1.8	210
		24	2,000	16.8	3.6	290
4A	66	05	140	3.5	0.75	179
		12	400	8.4	1.8	360
		24	1,900	16.8	3.6	303
1C	90	05	200	3.5	0.75	125
		12	1,000	8.4	1.8	145
		24	3,000	16.8	3.6	190
2C	90	05	150	3.5	0.75	165
		12	680	8.4	1.8	210
		24	2,000	16.8	3.6	290

The Pull-In / Drop-Out Voltage and Coil Resistance will change at Rate of 0.4% per °C

Environmental Data		Unit
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.)	20	g
Operating Temperature	-20 to 70	°C
Storage Temperature	-25 to 85	°C
Soldering Temperature (max.) 5 sec. max.	260	°C

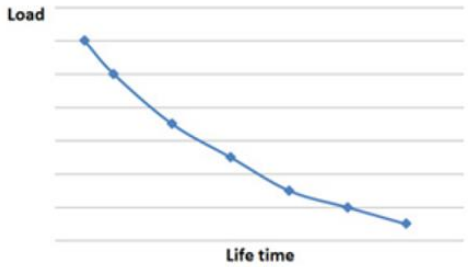
DIL Reed Relay

Handling & Assembly Instructions

- Switching inductive and/or capacitive loads create voltage and/or current peaks, which may damage the relay. Protective circuits need to be used.
- External magnetic fields needs to be taken into consideration, including a too high packing density. This may influence the relays' electrical characteristics.
- Mechanical shock impacts e.g. dropping the relays may cause immediate or post-installation failure.
- Wave soldering: maximum 260°/5 seconds.
- Reflow soldering: Recommendations given by the soldering paste manufacturer need to be considered as well as the temperature limits of other components/processes.

Life Test Data

*Load increase reduces life expectancy of Reed Switches



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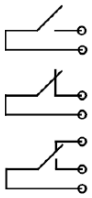
Glossary Contact Form

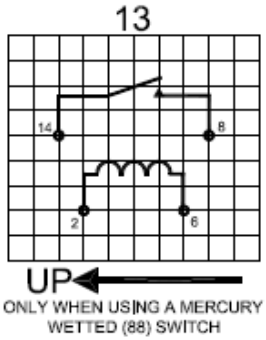
Form A	NO = Normally Open Contacts SPST = Single Pole Single Throw
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw
Form C	Changeover SPDT = Single Pole Double Throw

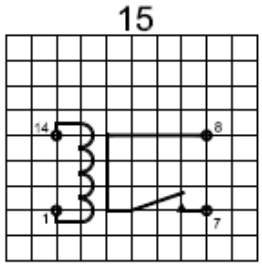


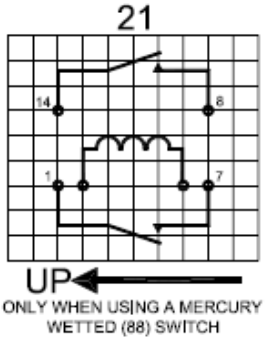
REACH COMPLIANT — RoHS COMPLIANT

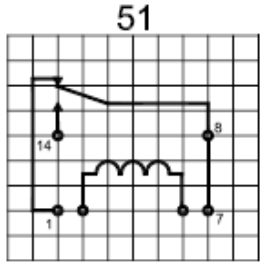
Pin Out

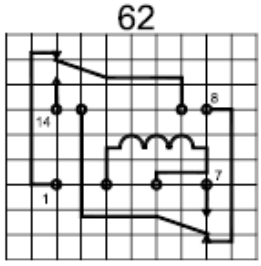
Top View
2.54mm [0.10“] pitch grid

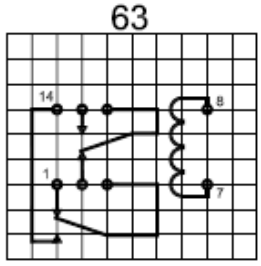






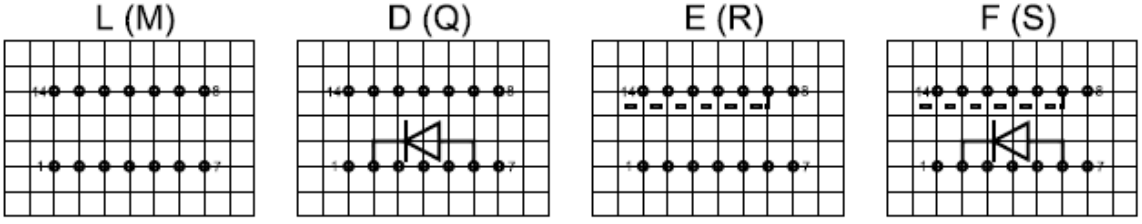






Options

Top View
2.54mm [0.10“] pitch grid



Please Note: Any option can affect the coil resistance, the breakdown voltage or other electronical data. Please contact us.

Special performance: The following special options are available on request:

- Other pinning layout
- Other coil resistance values
- Other switches available