

131 Series - Mercury Reed

SPST, DPST - N.O. , 2 Amp

The 131 series are single throw, normally open, miniature mercury reed relays. Reeds are hermetically sealed in glass tubes with trace amounts of liquid mercury to provide continuously refreshed contact surfaces for extremely long life.

The 134 series offers double throw contacts. Both are capable.

GENERAL SPECIFICATIONS (@ 25° C)

Contacts:

Contact Configuration	Up To DPST
Contact Material	Liquid Mercury
Contact Rating	
Load (maximum)	50VA
Switching Voltage (maximum)	500VDC
Switching Current (maximum)	2 Amp
Carry Current (maximum)	3 Amp
Contact Resistance, Initial	100 milliohms max @ 6VDC

Coil:

Coils Available	DC
Coil Power	Varies
Input Voltage Tolerance - DC	80% to 110% of nominal
Drop-out voltage	10% of nominal
Duty	Continuous

Timing:

Operate Time (typical w/o suppression)	2ms
Release Time (typical w/o suppression)	1.5ms

Dielectric Strength:

Across Open Contacts	1000VDC
Between Mutually Insulated Points	1000VDC
Insulation Resistance	1000 megohms @ 100VDC

Capacitance:

Across Open Contacts	0.3pF
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Temperature:

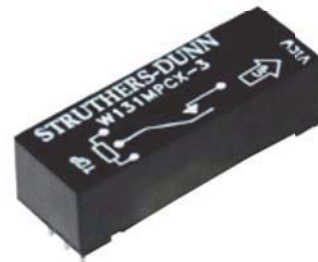
Operating	-37 to 85°C (-34.6 to 185°F)
Storage	-40 to 105°C (-40 to 221°F)

Life Expectancy:

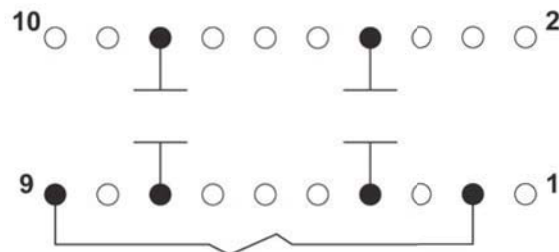
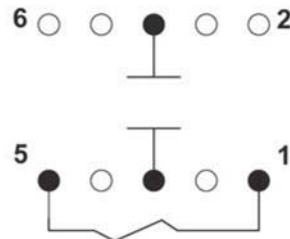
Electrical (full load operations)	40,000,000
Mechanical (no load operations)	100,000,000

Miscellaneous:

Enclosure	Epoxy encapsulated
Mounting Position	Vertical ±15°
Weight	Varies



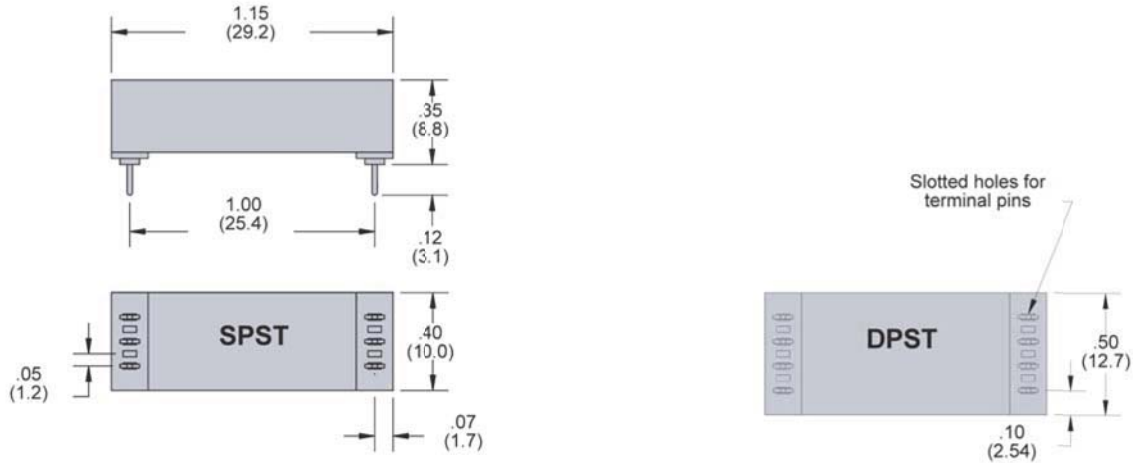
131 Wire Diagram
(Top View)



Reed Relays

Outline Dimensions

Dimensions Shown in inches & (millimeters)



131 Part Number Chart

Part number	Nominal input voltage	Maximum pull-in	Minimum dropout	Nominal resistance (ohms)	Nominal power (mW)	Maximum Contact Rating		
						Maximum switching load	Switching current and voltage	Carry current (Amps)
SPST - N.O.								
131MPCX-3	12	9	1	330	435	50VA	2 AMP	3
131MPCX-4	24	18	2	1400	410	50VA	500VDC	3
DPST - N.O.								
131MPCX-7	12	9	1	230	626	50VA	2 AMP	3
131MPCX-8	24	18	2	1200	480	50VA	500VDC	3