

Electrical Characteristics

Contact Arrangement -

1 Form C (SPDT)

Contact Material -Stationary -Gold/platinum/palladium/silver alloy (gold plated) Moveable -Gold/platinum/palladium/silver alloy (gold plated)

Contact Resistance -

Before Life — 100 milliohms max. (measured @ 10 mA @ 6 Vdc) After Life — 200 milliohms max. (measured @ 1 A @ 28 Vdc)

Mechanical Life Expectancy — 1 million operations

Coil Voltage — 5 to 40 Vdc

Coil Power — 506 mW max. @ 25°C

Duty Cycle — Continuous

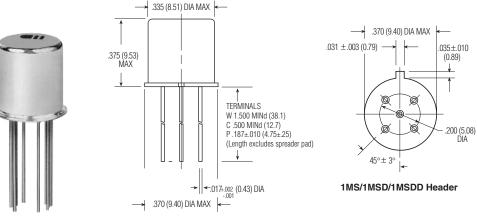
Pick-up Voltage — Approximately 50% of nominal coil voltage

Pick-up Sensitivity 40 mW max. @ 25°C



Contact Load	Туре	Operations MINd. 100,000	
1.0 A @ 28 Vdc	Resistive		
250 mA @ 115 Vac, 60 Hz & 400 Hz	Resistive (case not grounded)	100,000	
100 mA @ 115 Vac, 60 Hz & 400 Hz	Resistive	100,000	
0.2 A @ 28 Vdc	Inductive (0.32 Henry)	100,000	
0.1 A @ 28 Vdc	Lamp	100,000	
30 µA @ 50 mVdc	Low Level	1,000,000	
0.1 A @ 28 Vdc	Intermediate Current	50,000	

Excellent RF switching



1MS/1MSD/1MSDD Enclosure

Spreader pad

Excellent RF switching

Catalog 5-1773450-5 Revised 3-13

reference purposes only. Specifications subject to change.

Dimensions are shown for

Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752 Asia Pacific: +86 0 400 820 6015 UK: +44 800 267 666 For additional support numbers please visit www.te.com



Single Pole, Electrically Held, 1 Amp and Less (Continued)

1MS, 1MSD, 1MSDD

(Continued)

Operating Characteristics

Timing — Operate Time — 4.0 ms max.

Release Time — 1MS — 2.5 ms max. 1MSD/1MSDD — 7.5 ms max. (suppression diode, suppression/ steering diodes)

Contact Bounce — 1.5 ms max

Dielectric Withstanding Voltage — Between Open Contacts — 500 Vrms 60 Hz Between Adjacent Contacts — 500 Vrms 60 Hz Between Contacts & Coil — 500 Vrms 60 Hz

Insulation Resistance —

10,000 megohms @ 500 Vdc 1,000 megohms @ 500 Vdc (coil to case @ +125°C) Environmental Characteristics Temperature Range —

-65°C to +125°C Weight — 0.10 oz. (2.84 grms) 0.11 oz. (3.09 grms) with spreader pad attached Vibration Resistance —

30 G's, 10 to 3,000 Hz **Shock Resistance** — 75 G's, 6 ±1 ms max.

QPL Approval — MIL-R-39016/10 (J1MS)

-.370 (9.40) SQ MAX-

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MIL-R-39016/25 (J1MSD) MIL-R-39016/26 (J1MSDD)



Spreader & Mounting Pads

Coil Data

Nom. Coil Voltage (Vdc)	Coil Resistance in Ohms ±10% @ 25°C (Note 1)	Coil Circuit Current mA (Max.) (Note 1&2)	Coil Circuit Current mA (MINd.) (Note 1&2)	Pickup Voltage Vdc (Max.) @ 25°C (Note 2)	Base Turn On Current mA (Max.) @ 25°C	Pickup Voltage Vdc (Max.) @ 125°C (Note 2)	Base Turn On Current mA (Max.) @ 125°C	Drop-Out Voltage Vdc (MINd.) @ 25°C (Note 2)	Drop-Out Voltage Vdc (MINd.) @ -65°C (Note 2)	Nom. Coil Power (mW) @ 25°C	Max. Coil Voltage	Coil Desig.
1MS/1MSD)											
5.0	125	n/a	n/a	2.8	n/a	3.7	n/a	0.23	0.15	200	8.0	5
6.0	255	n/a	n/a	3.5	n/a	4.5	n/a	0.28	0.18	141	11.0	6
9.0	630	n/a	n/a	5.3	n/a	6.8	n/a	0.54	0.35	129	12.0	9
12.0	1,025	n/a	n/a	7.0	n/a	9.0	n/a	0.63	0.40	140	22.0	12
18.0	2,300	n/a	n/a	10.5	n/a	13.5	n/a	0.91	0.59	141	24.0	18
26.5	4,000	n/a	n/a	14.2	n/a	18.0	n/a	1.37	0.89	176	45.0	26
32.0	6,500	n/a	n/a	18.7	n/a	24.0	n/a	1.59	1.0	158	57.0	32
40.0	11,000	n/a	n/a	23.3	n/a	30.0	n/a	2.0	1.3	145	75.0	40
1MSDD												
5.0	100	50.0	36.3	3.5	n/a	4.5	n/a	0.23	0.15	250	8.0	5
6.0	200	30.6	22.7	4.1	n/a	5.5	n/a	0.28	0.18	180	11.0	6
9.0	630	15.0	11.5	6.3	n/a	7.8	n/a	0.54	0.35	129	16.0	9
12.0	1,025	12.5	9.7	8.0	n/a	10.0	n/a	0.63	0.40	140	22.0	12
18.0	2,300	8.5	6.7	11.6	n/a	14.5	n/a	0.91	0.58	141	33.0	18
26.5	4,000	7.2	5.7	15.4	n/a	19.0	n/a	1.37	0.89	176	45.0	26
32.0	6,500	5.4	4.3	17.0	n/a	21.0	n/a	1.5	0.95	158	57.0	32
40.0	11,000	4.0	3.2	22.0	n/a	27.0	n/a	2.0	1.28	145	75.0	40

Notes: 1. Coil resistance not directly measurable. Coil current should be within limits shown when tested at nominal voltage at 25°C for 5 seconds max. 2. Set base current at 3 mA to 15 mA during measurements.

Ordering Instructions

Catalog-selected Relays: The catalog number is derived by choosing the proper CODE for each of the relay characteristics in the order in which the codes are listed.

Specifying a Part Number Example:	<u>Type</u>	<u>Terminal</u>	Diodes	<u>Coils</u>	Spreader/Mounting Pads		
	1MS	С	D	-26	S		
* The part number example shown on this page is for catalog items. For a list of specific QPL part numbers, please see the index in Section 15.							

Semiconductor Characteristics

100 Vdc peak inverse voltage (PIV)

1.0 Vdc max. transient voltage

Diode -

Revised 3-13 www.te.com

Catalog 5-1773450-5

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TE Connectivity: J1MSC-12XP