Reed Relays

Fig. 1 Dip Reed Relays

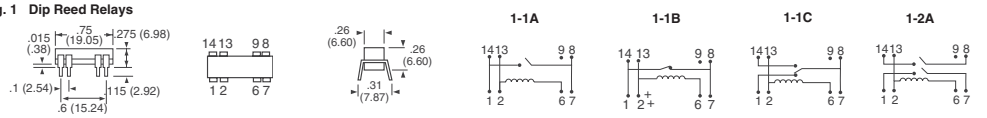


Fig. Form	Coil Volt. (VDC)	Coil Res. (Ω)	Pickup/ Dropout (VDC)	Max. Volt. (VDC)	Cur. Rtg. (A)	Cont. Res. (Ω)	Oper./ Release /-Bounce Time (msec.)	Power Rtg. (W)	Ins. Res. (Ω)	Digi-Key Part No.	Price Each 1	10	50	100	US Relays Part No.
Dip Reed Relays															
1-1A	5	500	4.0/0.5	100	.50	.20	.5/.5/.5	10	10^{10}	Z660-ND	4.29	3.63	3.04	2.48	D1A05A
	12	1000	9.6/1.2	100	.50	.20	.5/.5/.5	10	10^{10}	Z661-ND	4.29	3.63	3.04	2.48	D1A12A
	24	2200	19.2/2.4	100	.50	.20	.5/.5/.5	10	10^{10}	Z612-ND	4.42	3.74	3.13	2.55	D1A24A
1-2A	5	150	4.0/0.5	100	.50	.20	.5/.5/.5	10	10^{10}	Z662-ND	6.34	5.37	4.49	3.66	D2A05A
	12	500	9.6/1.2	100	.50	.20	.5/.5/.5	10	10^{10}	Z614-ND	6.34	5.37	4.49	3.66	D2A12A
	24	1750	19.2/2.4	100	.50	.20	.5/.5/.5	10	10^{10}	Z615-ND	6.66	5.64	4.72	3.85	D2A24A
1-1B	5	450	4.0/0.5	100	.50	.20	.35/.5/.5	10	10^{10}	Z616-ND	6.34	5.37	4.49	3.66	D1B05A
	12	450	9.6/1.2	100	.50	.20	.35/.5/.5	10	10^{10}	Z617-ND	6.66	5.64	4.72	3.85	D1B12A
1-1C	5	200	4.0/0.5	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z663-ND	7.74	6.55	5.48	4.47	D1C05C
	12	500	4.0/0.5	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z664-ND	7.74	6.55	5.48	4.47	D1C12C
	24	1750	19.2/2.4	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z621-ND	7.87	6.66	5.57	4.54	D1C24C
Series 10 Reed Relays															
2-1A	3	250	2.25/0.3	200	.5	.10	.5/.25/—	5	10^{10}	Z622-ND	6.11	5.17	4.33	3.53	R1A3AHH
	5	700	3.75/0.5	200	.5	.10	.5/.25/—	5	10^{10}	Z623-ND	6.34	5.37	4.49	3.66	R1A5AHH
	12	2000	9.0/1.2	200	.5	.10	.5/.25/—	5	10^{10}	Z624-ND	7.31	6.19	5.18	4.22	R1A12AHH
	24	4000	18.0/2.4	200	.5	.10	.5/.25/—	5	10^{10}	Z625-ND	10.08	8.53	7.13	5.82	R1A24AHH
	3	30	2.25/0.3	300	2	.10	.5/.25/—	50	10^{10}	Z626-ND	5.20	4.40	3.68	3.00	P1A3A
	5	100	3.75/0.5	300	2	.10	.5/.25/—	50	10^{10}	Z627-ND	5.20	4.40	3.68	3.00	P1A5A
	12	500	9.0/1.2	300	2	.10	.5/.25/—	50	10^{10}	Z628-ND	5.46	4.62	3.87	3.15	P1A12A
Series 30 Sip Reed Relays															
3-1A	5	500	3.8/0.5	200	.5	.20	0.4/0.1/0.3	10	10^{9}	Z530-ND	4.29	3.63	3.04	2.48	SD1A05A
	24	2000	16.0/2.0	200	.5	.20	0.4/0.1/0.3	10	10^{9}	Z532-ND	4.42	3.74	3.13	2.55	SD1A24A
	5	500	3.8/0.5	250	1	.20	0.5/0.3/0.3	50	10^{9}	Z533-ND	4.88	4.13	3.45	2.82	SD1A05D
	12	500	8.0/1.0	250	1	.20	0.5/0.3/0.3	50	10^{9}	Z534-ND	4.88	4.13	3.45	2.82	SD1A12D
	24	2000	16.0/2.0	250	1	.20	0.5/0.3/0.3	50	10^{9}	Z535-ND	5.04	4.27	3.57	2.91	SD1A24D
Open-Line Reed Relays															
4-1A	5	500	3.8/0.5	250	1	.10	0.4/0.2/0.25	20	10^{10}	Z638-ND	9.26	7.84	6.56	5.35	20-1051-10
4-2A	12	440	8.0/1.0	250	1	.10	0.5/0.2/0.25	20	10^{10}	Z642-ND	10.89	9.22	7.71	6.29	20-2121-10
4-1B	5	500	3.8/0.5	200	.5	.10	0.5/0.4/1.5	10	10^{10}	Z644-ND	10.01	8.67	7.44	6.36	20-1051-30
4-2B	5	200	3.8/0.5	200	.5	.10	0.6/0.4/1.5	10	10^{10}	Z647-ND	13.26	11.48	9.85	8.42	20-2051-30
	24	1250	16.0/2.0	200	.5	.10	0.6/0.4/1.5	10	10^{10}	Z649-ND	13.91	12.04	10.33	8.83	20-2241-30

Fig. 2 Series 10 Reed Relays

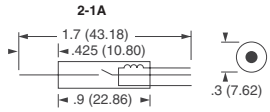


Fig. 3 Series 30 Sip Reed Relays

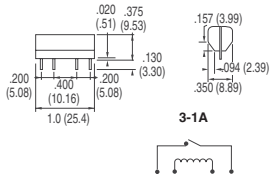
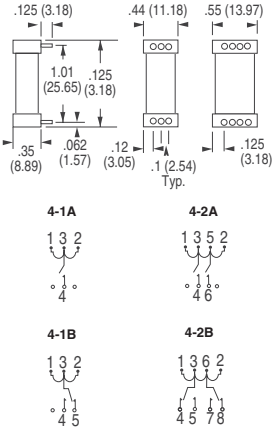


Fig. 4 Open-Line Reed Relays



Surface Mount Reed Relays

Fig. 1

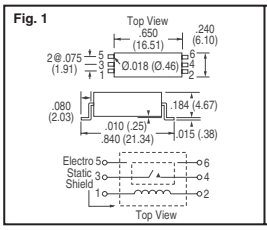


Fig. 2

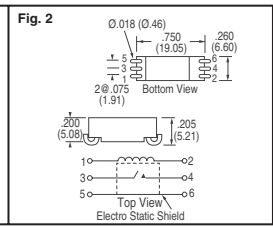


Fig. 3

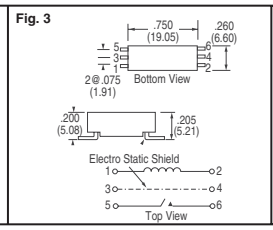


Fig. 4

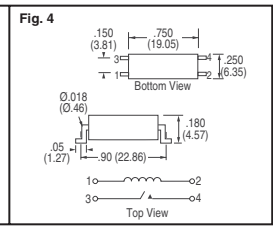


Fig. 5

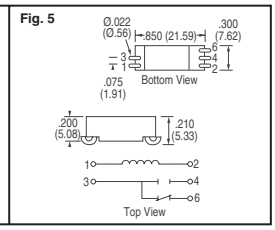


Fig.	Coil Voltage (VDC)	Coil Resistance (Ω)	Pickup/ Dropout (VDC)	Maximum Voltage (VDC)	Current Rating mA	Cont. Resistance (Ω)	Operate Time (msec.)	Ins. Resistance (Ω)	Digi-Key Part No.	Price Each 1	10	50	US Relays Part No.
1	4.5	150	3.5/0.5	250	500	.1	.35	$7x10^{12}$	Z650-ND	11.96	10.35	8.88	SMRR1-5-150C
2	5	150	3.75/0.4	200	500	.150	.35	$7x10^{12}$	Z651-ND	12.74	11.03	9.46	SMRR2-5-150C
3	5	150	3.8/0.5	250	500	.150	.35	$7x10^{12}$	Z653-ND	13.52	11.70	10.04	SMRR2-5-150F
4	5	250	3.75/0.4	200	500	.150	.35	$7x10^{12}$	Z654-ND	11.05	9.35	7.82	SMRR2-5-250
5	5	150	3.8/0.5	28	250	.2	.5	$7x10^{12}$	Z655-ND	12.43	10.76	9.23	SMRR3-5-150

Magnetic Sensors

Fig. 1

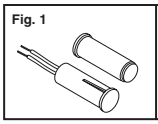


Fig. 2

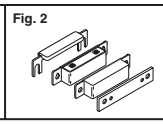


Fig. 3

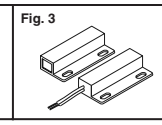


Fig. 4

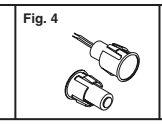


Fig. 5

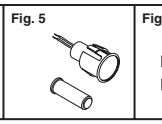


Fig. 6

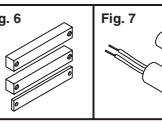
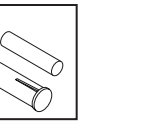


Fig. 7



MPS Series Magnetic Proximity Sensors operate when a magnetic field approaches two magnetic reed blades. The magnetic field overcomes the spring tension of the blades and brings the contacts together. When the magnetic actuator is removed, the reeds separate by their own spring tension. Comes complete with reed switch and matching actuator. **FEATURES:** • Long Life Expectancy — 10 million operations • Housing made of rugged impact resistant ABS plastic that meets or exceeds UL requirements for fire retardation • Sealed Contacts allowing the reed to operate in damp and dusty environments • Wide gap performance makes magnet and switch alignment less critical. **SPECIFICATIONS: • Contact Ratings:** 30VDC or 30VAC maximum @ 0.3 Amp Maximum; 1.0 Amp Maximum Carry Current **• Operating Temperature:** -40°C ~ 100°C **• Mechanical & Electrical Life:** 10 Million Operations **MATERIALS: • Housing/Spacer/Cover:** ABS Plastic (UL94V-0), white **• Wire Leads:** UL1061, 22 AWG: stranded, made of copper or aluminum; Length: 12" (30.48cm) with ends stripped; Color: white **• Magnets:** Alnico V and Ceramic Ferrite 8 (MPS80WG model only)

NOTE: Wide gap contacts are polarity sensitive. Use alignment dots for proper installation of surface mount contacts.

Fig.	Make Gap (mm)	Release Gap (mm)	Digi-Key Part No.	Price Each 1	10	100	250	C&K Part No.
1	31.75	40.64	CKN6002-ND	5.84	5.05	4.25	3.85	MPS9WGW
2	31.75	31.75	CKN6003-ND	7.21	6.23	5.25	4.76	MPS20WGW
3	25.40	33.02	CKN6004-ND	6.18	5.34	4.50	4.08	MPS45WGW
4	31.75	40.64	CKN6005-ND	6.87	5.93	5.00	4.53	MPS70WGW
5	31.75	40.64	CKN6006-ND	6.87	5.93	5.00	4.53	MPS73WGW
6	50.80	50.80	CKN6007-ND	7.00	6.05	5.10	4.62	MPS80WGW
7	31.75	40.64	CKN6008-ND	5.84	5.05	4.25	3.85	MPS95WGW