

DX87

pcb power relay

DURAKOOL



- miniature pcb power relay
- Up to 12A /28VDC rating
- industry standard style
- Cost effective
- RoHS Compliant



Contacts

Contact number & arrangement	SPST-NO (1 N/O), SPDT (1 C/O)	
Contact material	AgNi 90/10, AgSnO ₂	
Max. switching voltage	AC/DC	440VAC / 125VDC
Max. switching power	2500VA / 3000VA	
Min. switching current / voltage	100mA/12VDC	
Rated load	AC1	10A, 250VAC (Sensitive Coil) / 12A, 250VAC
	DC1	10A, 30VDC (Sensitive Coil) / 12A, 30VDC
Initial resistance	100mΩ, max. at 0.1A/6VDC	

Coil

Rated voltage	DC	5...110V
	AC	
Must release voltage	DC	≥ 0.1Un
	AC	
Operating range of supply voltage	See coil tables 1 and 2	
Rated power consumption	DC	250mW (Sensitive Coil) / 400mW
	AC	

Insulation

Insulation resistance	≤ 1000MΩ at 500VDC, 50%RH	
Dielectric strength		
	coil to contact	5000Vrms, 1min
	contact to contact	1000Vrms, 1min

General Data

Operating time (typical)	mS	≤ 15ms
Release time (typical)	mS	≤ 8ms
Electrical Life	ops	≥ 1 x 10 ⁵
Mechanical life	ops	≥ 1 x 10 ⁷
Dimensions	L x W x H	29 x 12.7 x 15.7mm
Weight		13.5g
Ambient temperature	storage	-40 to 85°C
	operating	-40 to 85°C
Shock resistance	Functional: 100m/s ² ; Destructive: 1000m/s ²	
Vibration resistance	DA 1.5mm 10-55Hz	

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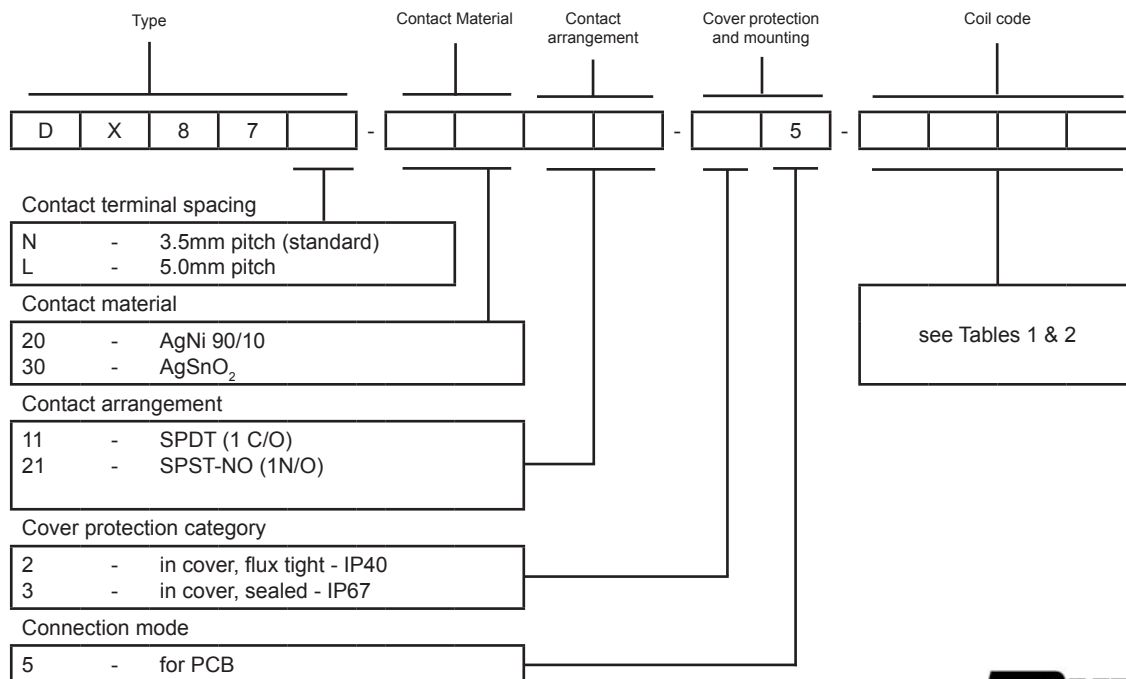


Coil Data (DC voltage 400mW)					Table 1
Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance (Ω) $\pm 10\%$	Operate voltage max. (VDC)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)
1005	5	62	7.5	3.5	0.5
1006	6	90	9.0	4.2	0.6
1009	9	202	13.5	6.3	0.9
1012	12	360	18.0	8.4	1.2
1018	18	810	27.0	12.6	1.8
1024	24	1440	36.0	16.8	2.4
1048	48	5760 $\pm 15\%$	72.0	33.6	4.8
1060	60	7500 $\pm 15\%$	90.0	42.0	6.0
1110	110	25200 $\pm 15\%$	165.0	77.0	11.0

Coil Data (DC voltage 250mW) - SPDT (1 Form C, 1C/O only)					Table 2
Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance (Ω) $\pm 10\%$	Operate voltage max. (VDC)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)
S005	5	100	6.5	3.75	0.5
S006	6	144	7.8	4.50	0.6
S009	9	324	11.7	6.75	0.9
S010	10	400	13.0	7.5	1.0
S012	12	576	15.6	9.00	1.2
S018	18	1296	23.4	13.5	1.8
S024	24	2304	31.2	18.0	2.4
S048	48	9216 $\pm 15\%$	62.4	36.0	4.8
S060	60	12857 $\pm 15\%$	78.0	45.0	6.0

Operating relays below or above the nominal voltage may prove detrimental to performance.

Ordering codes



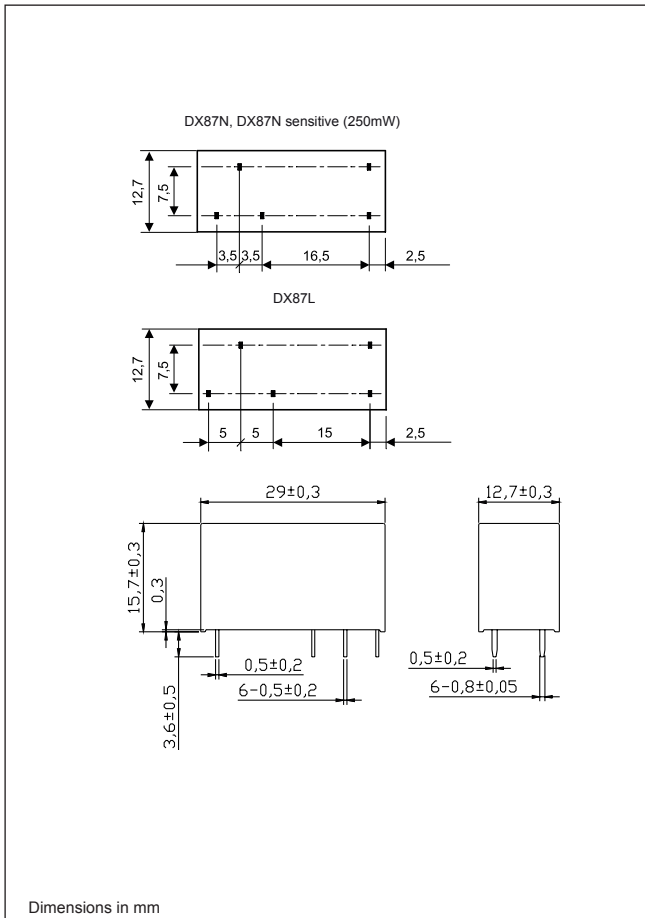
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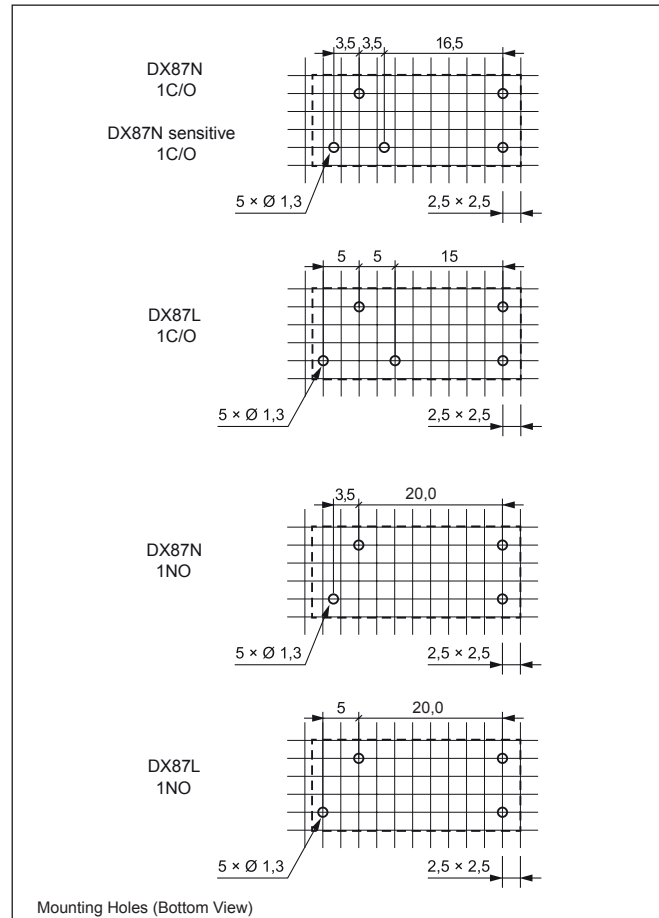
Overall Dimensions

Fig. 1



PCB Mounting Dimensions

Fig. 2



Connection diagrams

Fig. 3

