

# DX2, DX3 & DX4 series

## industrial plug-in relay

# DURAKOOL



- \* Industry standard footprint, now with terminal blades with no holes for better mounting in sockets.
- \* Integral LED (Red for AC, Green for DC coils).
- \* Locking Test Lever with press feature. (Blue for DC, Red for AC coils)
- \* Welded (not soldered) internal electrical connections for greater reliability.
- \* RoHS Compliant



### Contacts

Contact number & arrangement	DPDT (2 C/O), 3PDT (3C/O), 4PDT (4 C/O)	
Contact material	Ag alloy	
Max. switching voltage	AC/DC	277VAC, 30VDC
Min. breaking capacity	W	0.3W
Rated load (resistive - $\cos \varphi=1$ )	AC1	DPDT: 10A/240VAC, 3PDT: 7A/240VAC, 4PDT: 5A/240VAC
	DC1	DPDT: 10A/28VDC, 3PDT: 7A/28VDC : 4PDT: 5A/28VDC
Initial resistance	$\leq 100m\Omega$	

### Coil

Rated voltage	DC	6...110V
	AC	6...220V
Must release voltage	DC: $\geq 0.1U_n$ , AC: $\geq 0.3U_n$	
Operating range of supply voltage	See coil tables 1, 2 & 3	
Rated power consumption	DC	0.9W
	AC	1.2VA

### Insulation

Insulation resistance	$\geq 100M\Omega$ at 500VDC, 50%RH	
Dielectric strength		
	coil to contact	1500Vrms, 1min (50Hz), 1mA
	contact to contact	1000Vrms, 1min (50Hz), 1mA
	between adjacent contacts	1200Vrms, 1min (50Hz), 1mA

### General Data

Operating time (typical)	mS	$\leq 15$
Release time (typical)	mS	$\leq 10$
Electrical Life	ops	$1 \times 10^5$
Mechanical life	ops	$1 \times 10^7$
Dimensions	L x W x H	27 x 21 x 35mm
Weight		$\leq 35g$
Ambient temperature	storage	-55 to 70°C
	operating	-40 to 70°C
Shock resistance		10G, 11ms
Vibration resistance		DA 1.0mm 10-55Hz

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Coil Data (DC voltage) Green LED

Table 1

Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance ( $\Omega$ ) $\pm 10\%$	Power Consumption (mW)	Must Operate Voltage max. (VDC)	Must Release Voltage min. (VDC)	Max. Allowable Voltage (VDC)
1006	6	40	900	4.5	0.6	6.6
1012	12	160	900	9.0	1.2	13.2
1024	24	640	900	18.0	2.4	26.4
1048	48	2600	900	36.0	4.8	52.8
1110	110	13600	900	82.5	11.0	121.0

Coil Data (AC voltage 50Hz) Red LED

Table 2

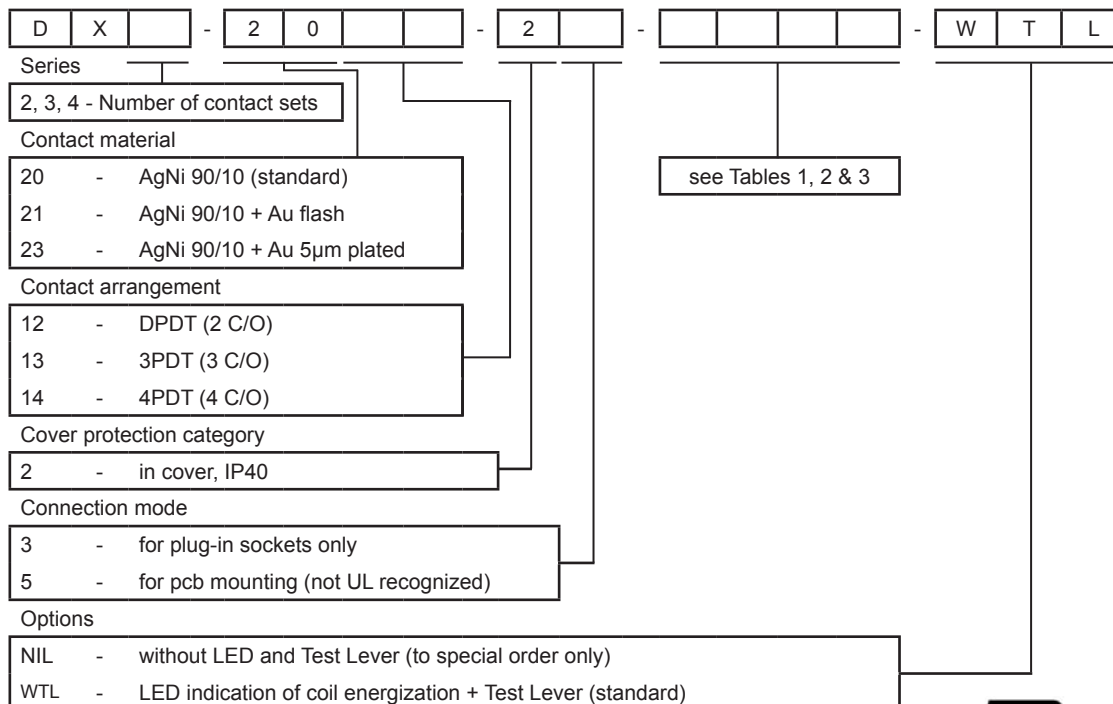
Coil Voltage Code	Nominal Voltage (VAC)	Coil Resistance ( $\Omega$ ) $\pm 10\%$	Power Consumption (VA)	Must Operate Voltage max. (VAC)	Must Release Voltage min. (VAC)	Max. Allowable Voltage (VAC)
3006	6	10	1.2	4.8	1.8	6.6
3012	12	40	1.2	9.6	3.6	13.2
3024	24	158	1.2	19.2	7.2	26.4
3048	48	640	1.2	38.4	14.4	52.8
3110	110	3450	1.2	88.0	33.0	121.0
3230	220/230	15400	1.2	176.0	66.0	242.0

Coil Data (AC voltage 60Hz) Red LED

Table 3

Coil Voltage Code	Nominal Voltage (VAC)	Coil Resistance ( $\Omega$ ) $\pm 10\%$	Power Consumption (VA)	Must Operate Voltage max. (VAC)	Must Release Voltage min. (VAC)	Max. Allowable Voltage (VAC)
6006	6	10.5	1.2	4.8	1.8	6.6
6012	12	42	1.2	9.6	3.6	13.2
6024	24	168	1.2	19.2	7.2	26.4
6048	48	672	1.2	38.4	14.4	52.8
6110	110	3550	1.2	88.0	33.0	121.0
6120	120	4200	1.2	96.0	36.0	132.0
6220	220	14120	1.2	176.0	66.0	242.0

## Ordering Codes

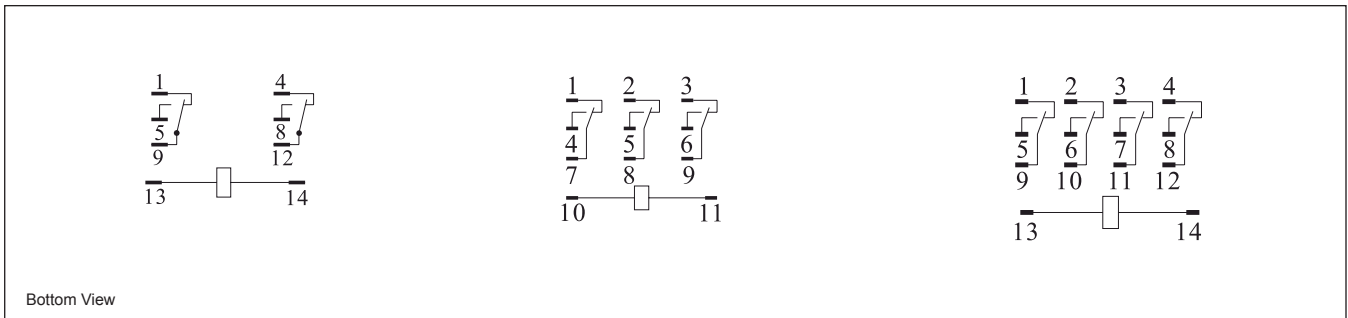


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Wiring Diagrams

Fig. 1



Overall Dimensions

Fig. 2

