



- Terminal blades with no holes for better fit in sockets
- Integral LED (Red for AC, Green for DC coils)
- Universal 24VAC/DC coil version (Yellow LED)

- Locking test lever standard
- Back EMF diode standard for DC Coils
- Welded internal connections for greater reliability

Contacts		Ordering Cod	de		
Contact arrangement	4PDT (4CO, 4 Form C)				
Contact material	AgNi90/10 +0.2um Au, AgNi90/10+5um Au	D X N - 1 3 - 3 0 2 4 -			
Max. switching voltage AC/D	277VAC, 30VDC				
Rated load (resitive, cos φ=1) AC	1 5A/240VAC	Series	Series		
DC	1 5A/28VDC				
Initial contact resistance	≤ 100mΩ	Contact materia	1		
Coil		1: AgNi90/10 +	0.2um Au		
Rated Voltage (see page 2) De	6 110V	3: AgNi90/10 +	3: AgNi90/10 + 5um Au		
AC 50/60H	z 6 240V				
AC/D <sup>r</sup>	24V (universal AC or DC)	Mounting & term	ninations (IP4	0)	
Operating range	DC: 0.9W / AC: 1.2VA	3: for plug-in so	3: for plug-in sockets only		
Insulation		5: for PCB mou	nting only		
Insulation resistance	≥1000MΩ at 500VDC, 50%RH				
coil to conta	ct 2500Vrms, 1min, 1mA	Coil Code			
Dielectric strength coil to contact	t 1000Vrms, 1min, 1mA	1: DC Coil with	1: DC Coil with diode see coil tables		il tables
between adjacent contac	s 2000Vrms, 1min, 1mA	3: AC 50/60Hz	3: AC 50/60Hz Coil 1, 2 & 3 for		& 3 for
General Data		U: Universal AC	C/DC Coil	full	code
Operate / bounce time typica	l ≤ 10ms / ≤ 3ms				
Release / bounce time typica	l ≤ 6ms / ≤ 1ms	NIL: Standard	NIL: Standard part, blue top, with test lever and		
Electrical life	1 x 10⁵(at rated load)	B: No test lev	ver, but with L	ED.	
Mechanical life	1 x 10 <sup>7</sup> (max. switching rate = 1200ops/hr)				
Environmental		Standard Featu	ires		
Ambient temperature operatin	g -40 to 70°C		LED Indicat	ion	Test Lever
storag	e -40 to 80°C (no icing)	AC Coil	Red		Red
Shock resistance	Functional: 10g 11ms	DC Coil	Green		Blue
Vibration resistance	DA 1.0mm 10-55Hz	24VAC/DC Coil	24VAC/DC Coil Yellow Grey		Grey
Dimensions L x W x	27 x 21 x 36.7mm (excluding terminals)	Back EMF diode	e for all DC C	oils	
Weight approx	. 40g				

#### DXN 011022FW

## DURAKOOL

### DXN series Industrial 4PDT Plug-in Relay

Table 2

Fig 1

Fig 2

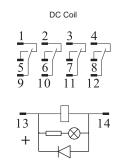
DC Coil Data (Green LED) Table 1						
Coil code	Nominal voltage (VDC)	Coil resistance (Ω) ±10%	Power consumption (mW)	Must operate voltage max. (VDC)	Must release roltage min. (VDC)	Max. allowable voltage (VDC)
1006	6	40	900	4.5	0.6	6.6
1012	12	160	900	9.0	1.2	13.2
1024	24	640	900	18.0	2.4	26.4
1048	48	2600	900	36.0	4.8	52.8
1110	110	13600	900	82.5	11.0	121.0

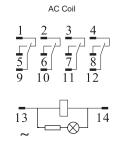
### AC 50/60Hz Coil Data (Red LED)

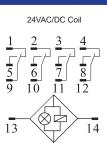
Coil code	Nominal voltage (VAC)	Coil resistance (Ω) ±10%	Power consumption (VA)	Must operate voltage max. (VAC)	Must release voltage min. (VAC)	Max. allowable voltage (VAC)
3006	6	10	1.2	4.8	1.8	6.6
3012	12	40	1.2	9.6	3.6	13.2
3024	24	158	1.2	19.2	7.2	26.4
3048	48	640	1.2	38.4	14.4	52.8
3110	110	3450	1.2	88.0	33.0	121.0
3120	120	4200	1.2	96.0	36.0	132.0
3230	220/230	15400	1.2	176.0	66.0	242.0
3240	240	16800	1.2	192.0	72.0	264.0

Universal AC/DC coil data* (Yellow LED) Table						
Coil code	Nominal voltage (VAC or VDC)	Coil resistance (Ω) ±10%	Power consumption (W)	Must operate voltage max.	Must release voltage min.	Max. allowable voltage
U024	24	495.6	0.9	18.0	2.4	26.4
* Bridge rectifier circuit with LED indication. See wiring diagram below.						

#### **Connection Diagram**







Dimensions

27 5.9 0.5

Plug-in





PCB

Dimensions in mm

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Specifications are subject to change without notice. E&OE

# DURAKOOL

## DXN series Industrial 4PDT Plug-in Relay

Mounting Sockets for DXN relays			Fig. 3
D18F-4Z-C4	Rated voltage: 300VAC Rated current: 10A Insulation voltage : ≥ 3KV Socket material: PA46-S250F6 (V1/V0) Contacts spring material : QSn6.5-0.1 Options: Steel Wire Hold down spring: JH-36MS-B Plastic Ejector clip: JH-36PS-A Plug-in Accessory Modules:	27.2max 19.65 + 10-M3×8	
D18F-4Z-C5	DM41G-BK Green LED 6/24VDC DM41R-BK Red LED 6/24VDC DM61G-BK Green LED 6/24VAC/DC with diode DM63G-BK Green LED 110/230VAC/DC DM63R-BK Red LED 110/230VAC/DC DM91G-BK Green LED 6/24VAC/DC with varistor DM93G-BK Green LED 110/230VAC/DC with varistor Other modules upon request.		
D18F-4Z-C7	Rated voltage : 250VAC Rated current : 5A Insulation voltage : ≥ 3KV Socket material : PA66+GF (V1/V0) Contacts spring material : QSn6.5-0.1 Options: Steel Wire Hold down spring: JH-36MS-B		
D18F-4Z-C8	Rated voltage : 300VAC Rated current : 10A Insulation voltage : ≥ 3KV Socket material : PA66+GF (V1/V0) Contacts spring material : QSn6.5-0.1 Options: Steel Wire Hold down spring: JH-36MS-B Plastic Ejector Clip: JH-36PS-A Plug-in Accessory Modules:	29.5 max 20.5 20.5 29.5 29max 19 19 19 19 19 19 19 19 19 19 19 19 19	
D18F-4Z-C9	DM41G-BK Green LED 6/24VDC DM41R-BK Red LED 6/24VDC DM61G-BK Green LED 6/24VAC/DC with diode DM63G-BK Green LED 110/230VAC/DC DM63R-BK Red LED 110/230VAC/DC DM91G-BK Green LED 6/24VAC/DC with varistor DM93G-BK Green LED 110/230VAC/DC with varistor Other modules upon request.		

Dimensions in mm

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