



# P1N

## One Pole, Change-Over Contact

**10A 250V AC1    0.5A 110V DC1**  
**10A 30V DC1    0.2A 220V DC1**

### Contacts

Materials:	Standard	AgNi
Max. switching current		10A
Max. Peak inrush current (20 ms.)		30 A
Max. Switching voltage		250 V
Max. AC load (Graph 1)		2.5 KVA
Max. DC load		See Graph 2*

### Coils (Ohms $\pm$ 10% @ 20°C)

Pull-in voltage	$\leq 0.8 \times U_n$
Drop-out voltage	$\geq 0.1 \times U_n$
Nominal Coil Power	1.1 VA (AC) / 0.7 W (DC)

VAC	$\Omega$	mA	VDC	$\Omega$	mA
24	290	45.0	12	224	53.0
48	1200	23.0	24	742	32.0
115	7,300	9.5	48	3,500	13.7
230	28,800	4.7	110	19,900	5.5

### Insulation

Dielectric strength (1 minute):	
Open contacts	1 KV
Between Contacts & Coil	5 KV
Insulation resistance at 500VDC	>3G $\Omega$
Isolation, IEC 61810-5:	4 KV / 3

### Specifications

Operate Time + Bounce Time	10 ms.
Release Time + Bounce Time	8 ms.
Ambient Temperature	-40°C (no ice)... +70°C
Mechanical life ops.	10 Million AC, 20 Million DC relays
Electrical life at nominal load	> 100,000 ops.
Operating frequency at nominal load	1,200 / hour
Protection (Graph 1)	IP40 / RT1
Weight Approx.	21 gms.

### Standard types

**AC 50 Hz : 12, 24, 48, 115, 230**  
**DC : 12, 24, 48, 110**

#### Common for AC & DC Voltages

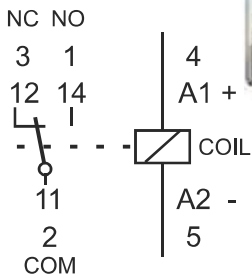
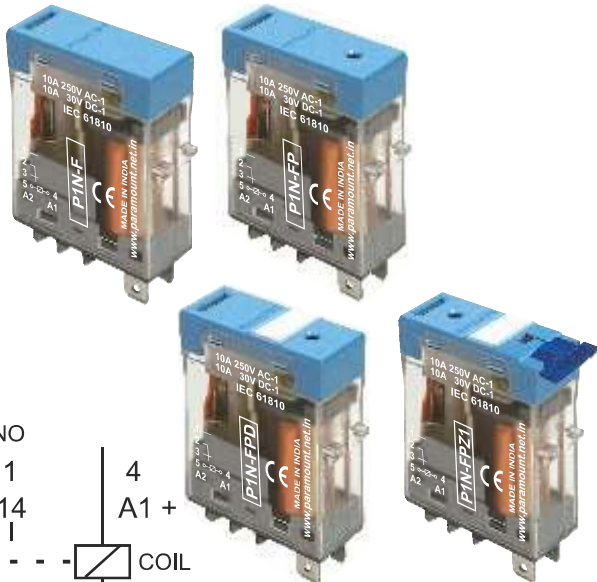
F = Mechanical flag indicator	P1N-F	.... VAC/VDC
P = LED Indicator	P1N-FP	.... VAC/VDC
D = White Label	P1N-FPD	.... VAC/VDC
I = Manual & lockable Push Button	P1N-FPI	.... VAC/VDC

#### Only for DC Voltages

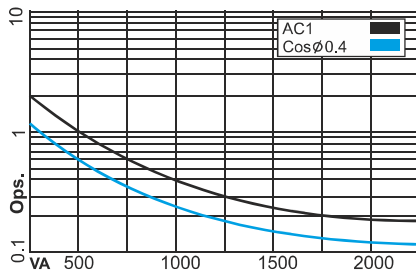
W= Free wheeling Diode	P1N-FPW	.... VDC
Z= Polarity & Free wheeling Diode	P1N-FPZ	.... VDC

**Suitable Sockets : S1LDE, S1HD-E, S1P, SN1P**

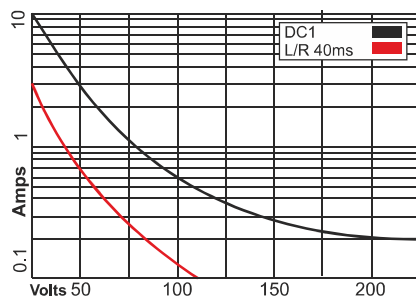
### Approvals



**Graph 1** Electrical life, ops x 10<sup>6</sup>



**Graph 2** Max. DC load



### Dimensions in mm.

