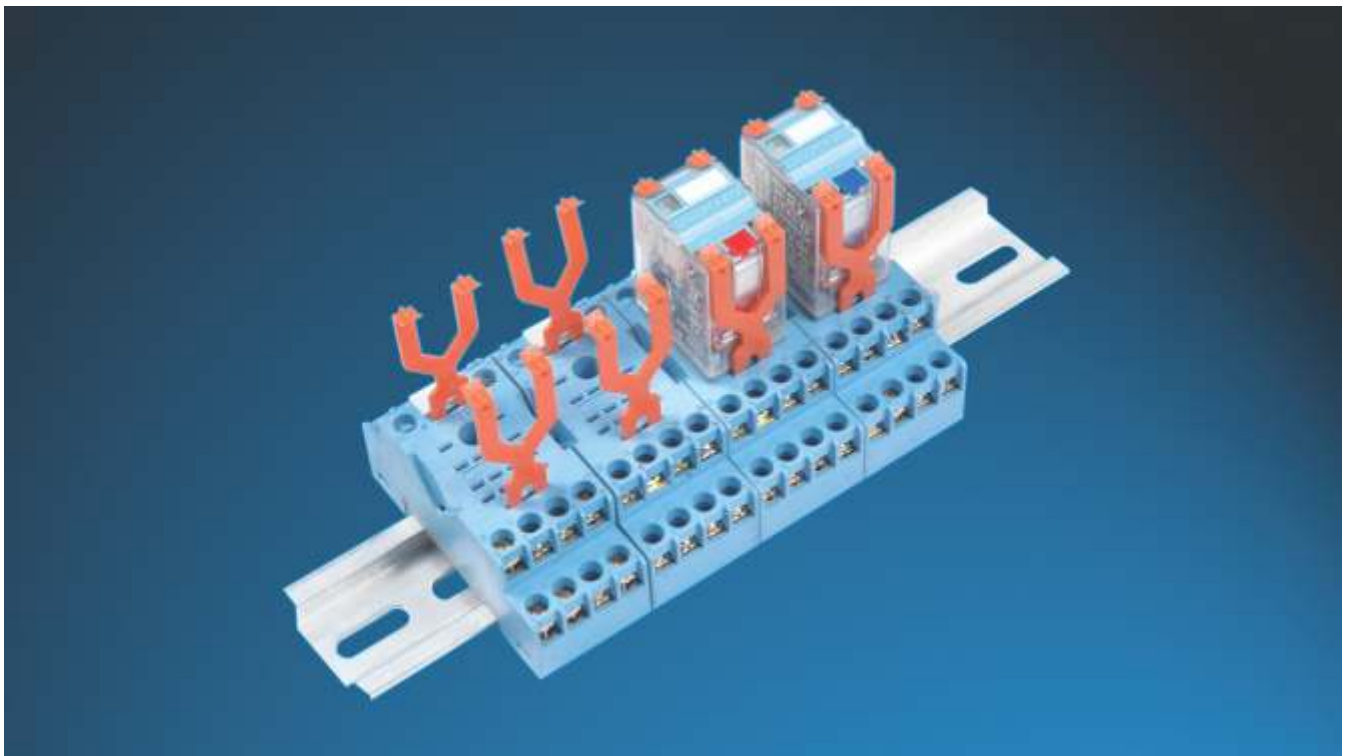
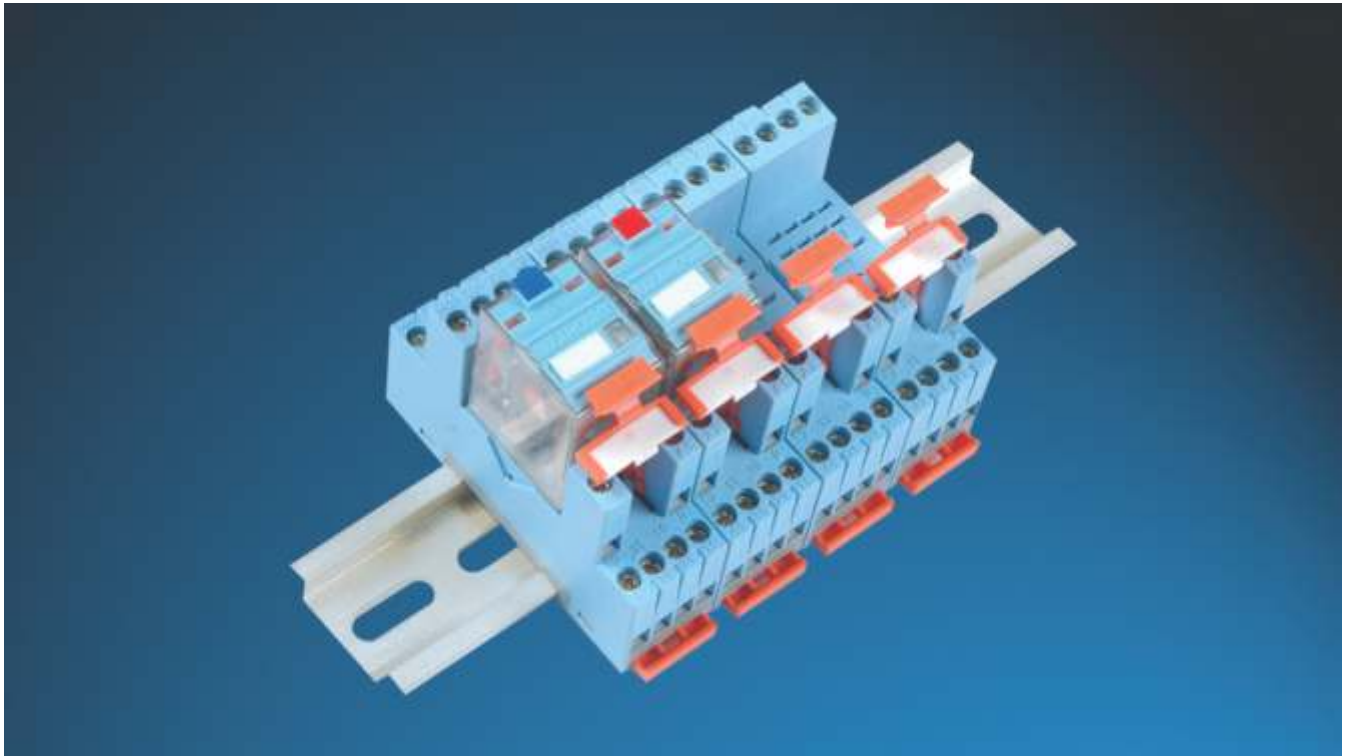


Catalogue

Series P14



Benefits
of the new



Marking Label for Relay numbering

LED Indicator

In-Built Free Wheeling
& Polarity Diode

AC 6V, 12V, 24V, 48V, 115V, 230V
DC 6V, 12V, 24V, 48V, 110V, 220V

Part Number & Technical information
marked on back side of the relay LED

Isolation between coil and contact 5KV



Colour coded Push Button according
to coil voltage = DC Blue
= AC Red

Mechanical Flag Indicator

Contact Rating
Standard Contact : 7 A @ 250V AC1

Contact type : 4 Change Over Contact

Solid Brass Flat Pin

P14 is a Four Pole Compact Industrial Plug In Relay with all the In-built Mechanical and Electronic Features.

Color coded Push Button
DC Blue & AC Red

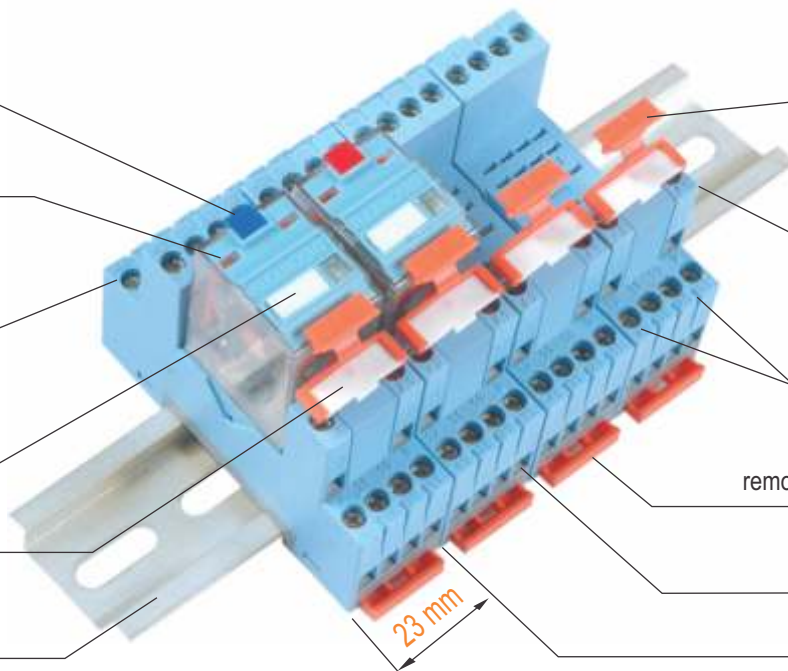
Mechanical Flag Indicator

Industrial size combination
screws (M3)

Relay Marking Label

Socket Marking Label

Standard 35mm DIN rail



Inbuilt easy to use
Retainer Clips

Coil Terminals
(13, A1 +ve), (14, A2 -ve)

Clearly visible terminal
numbering according
to DIN & EURO standards

Orange Back Cover clip for
removing socket from the DIN Rail

Large wire inlets
(upto 4sq mm) for easy wiring

Socket width 23 mm

S14D is a Four Pole Touch protected Socket.

Benefits
of the new



Marking Label for Relay numbering

LED Indicator

In-Built Free Wheeling
& Polarity Diode

AC 6V, 12V, 24V, 48V, 115V, 230V
DC 6V, 12V, 24V, 48V, 110V, 220V

Part Number & Technical information
marked on back side of the relay LED

Isolation between coil and contact 5KV



Colour coded Push Button according
to coil voltage = DC Blue
= AC Red

Mechanical Flag Indicator

Contact Rating
Standard Contact : 7 A @ 250V AC1

Contact type : 4 Change Over Contact

Solid Brass Flat Pin

P14 is a Four Pole Compact Industrial Plug In Relay with all the In-built Mechanical and Electronic Features.

Color coded Push Button
DC Blue & AC Red

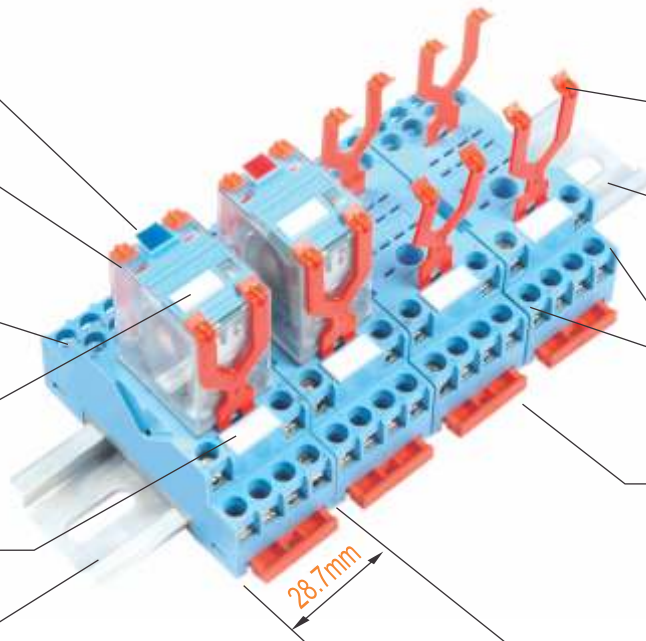
Mechanical Flag Indicator

Industrial size combination
screws (M3)

Relay Marking Label

Socket Marking Label

Standard 35mm DIN rail



Inbuilt easy to
use Retainer Clips

Coli Terminals
(13, A1 +ve), (14, A2 -ve)

Clearly visible terminal
numbering according
to DIN & EURO standards

Orange Back Cover clip for
removing socket from the DIN Rail

Socket width 28.7mm

S14LD is a Four Pole Touch Protected Socket.



P14 Relay

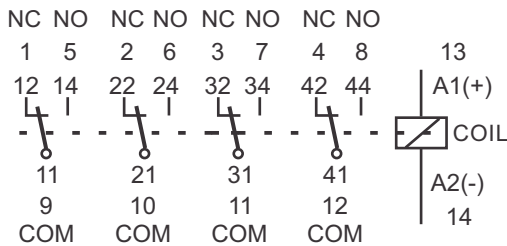


4 Pole, Change-Over Contacts

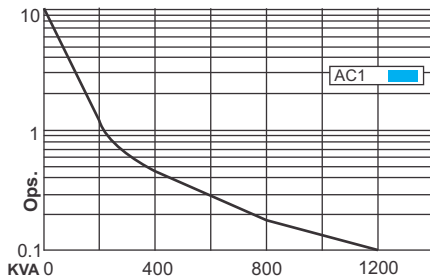
7 A 250V AC1 50Hz

7 A 30V DC1

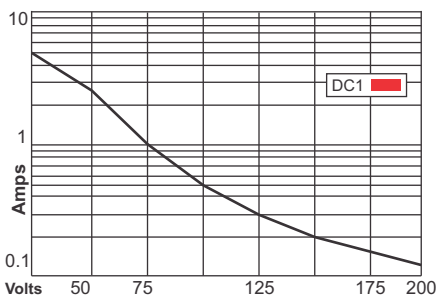
Pin configuration for P14



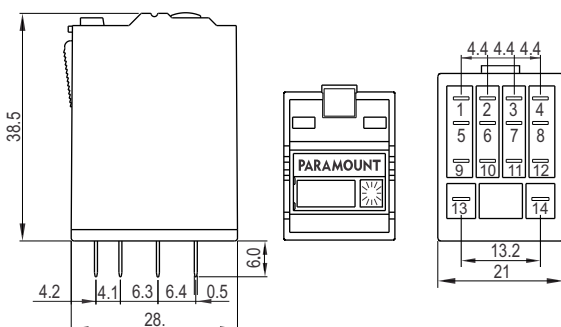
Graph 1 Electrical life, ops x 10⁶



Graph 2 Max. DC load



Dimensions in mm.



Contacts

Materials: Standard	AgNi
Max. switching current	7 A
Max. Peak inrush current (20 ms.)	15 A
Max. Switching voltage	250 V
Max. AC load (Table 1)	2.5 KVA

Coils (Ohms ± 10% @ 20°C)

Pull-in voltage	≤ 0.8 x Un
Drop-out voltage	≥ 0.1 x Un
Nominal Coil Power	1.2 VA (AC) / 1.W (DC)

VAC	Ω	VDC	Ω
6	12	6	40
12	50	12	160
24	190	24	640
48	785	48	2600
110	3880	110	13600
230	17400	220	54000

Insulation

Dielectric strength (1 minute): Open contacts	2.5 KV
Between adjacent poles	2.5KV
Between Contacts & Coil	>3GΩ
Insulation resistance at 500V	2.5KV / 3
Isolation, IEC 61810-5:	

Specifications

Operate Time + Bounce Time	10 ms.
Release Time + Bounce Time	6 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 degree	IP40 / RT1
Weight avg.	43 grs.

Standard Types

AC : 50Hz : 6, 12, 24, 48, 115 (120), 230 (240)	
F = Mechanical Flag Indicator	P14-4-F VAC
P = LED Indicator	P14-4-FP VAC
C = Test to Push Button	P14-4-FPC VAC
I = Lockable Push Button	P14-4-FPI VAC
R = RC Snubber circuit (115 or 230V)	P14-4-FPIR VAC
DC : 6, 12, 24, 48, 110, 220	
F = Mechanical Flag Indicator	P14-4-F VDC
P = LED	P14-4-FP VDC
Z = Polarity & Free Wheeling Diode	P14-4-FPZ VDC
C = Test to Push Button	P14-4-FPZC VDC
I = Lockable Push Button	P14-4-FPZI VDC
B = AC/DC Bridge Rectifier (24/48V)	P14-4-FPIB VDC

Suitable Sockets : S14D, S14LD, S14P

Approvals



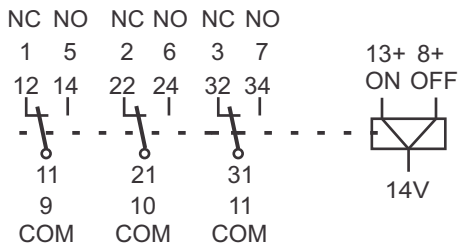


P14-L

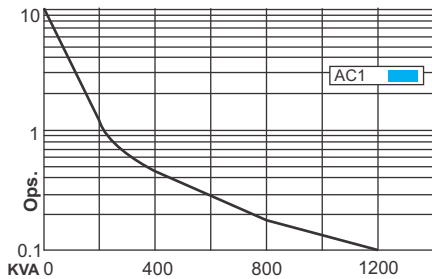
**Latching Relay, 3CO Contacts
(Two coils with Common Negative)**

**5 A 250V AC1 0.2A 110V Dc1
5 A 30V AC1 0.1A 220V DC1**

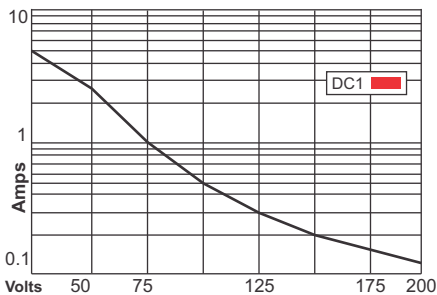
Pin configuration for P14



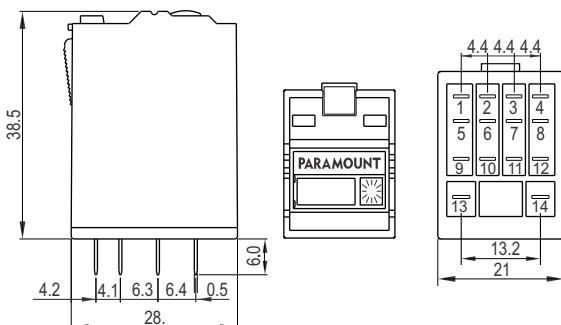
Graph 1 Electrical life, ops x 10⁶



Graph 2 Max. DC load



Dimensions in mm.



Contacts

Materials: Standard AgNi
 \Max. switching current 7 A
 Max. Peak inrush current (20 ms.) 15 A
 Max. Switching voltage 250 V
 Max. AC load (Table 1) 2.5 KVA

Coils (Ohms ± 10% @ 20°C)

Pull-in voltage ≤0.8 x Un
 Drop-out voltage ≥0.1 x Un
 Nominal Coil Power 1.2 VA (AC) / 1.W (DC)

VAC	ON mA	OFF mA	Vdc	ON mA	OFF mA
24	50	8	12	100	25
48	25	4	24	50	12
115	10	2	48	25	6
230	5	1	220	6	3

Insulation

Dielectric strength (1 minute): Open contacts
 Between adjacent poles 2.5KV
 Between Contacts & Coil 2.5KV
 Insolation resistance at 500V >3GΩ
 Isolation, IEC 61810-5: 2.5KV / 3

Specifications

Operate Time + Bounce Time 10 ms.
 Release Time + Bounce Time 6 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 degree IP40 / RT1
 Weight avg. 43 grs.

Standard Types

AC : 50Hz (60Hz) : 24, 48, 115, 230V
L= Latching Relays (Two coils with common Negative) **P14-3-L VAC**
DC : 12, 24, 48, 220V **P14-3-LVDC**

Suitable Sockets : S14D, S14LD, S14P

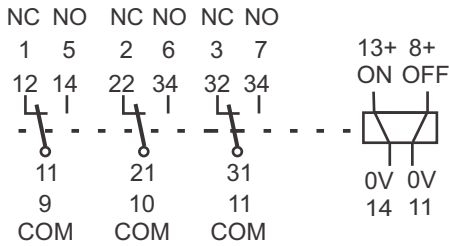


P14-L2

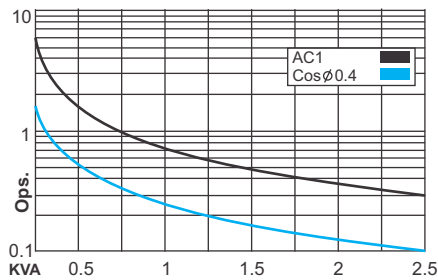
**Latching Relay, 3CO Contacts
(Two Independent Coils)**

**5 A 250V AC1 0.2A 110V DC1
5 A 30V AC1 0.1A 220V DC1**

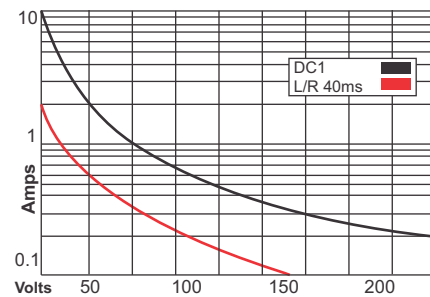
Pin configuration for P14



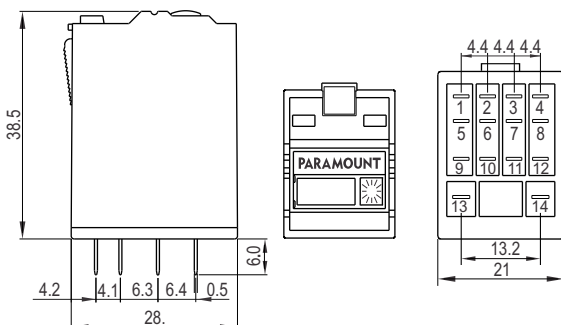
Graph 1 Electrical life, ops x 10⁶



Graph 2 Max. DC load



Dimensions in mm.



Contacts

Materials: Standard	AgNi
\Max. switching current	7 A
Max. Peak inrush current (20 ms.)	15 A
Max. Switching voltage	250 V
Max. AC load (Table 1)	2.5 KVA

Coils (Ohms ± 10% @ 20°C)

Pull-in voltage	≤0.8 x Un
Drop-out voltage	≥0.1 x Un
Nominal Coil Power	1.2 VA (AC) / 1.W (DC)

VAC	ON mA	OFF mA	Vdc	ON mA	OFF mA
24	50	8	12	100	25
48	25	4	24	50	12
115	10	2	48	25	6
230	5	1	220	6	3

Specifications

Operate Time + Bounce Time	10 ms.
Release Time + Bounce Time	6 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 degree	IP40 / RT1
Weight avg.	43 grs.

Standard Types

AC : 50Hz : 24, 48, 115, 230V

L2= Latching Relays (Two independent Coils) P14-3-L2VAC

DC : 12, 24, 48, 220V

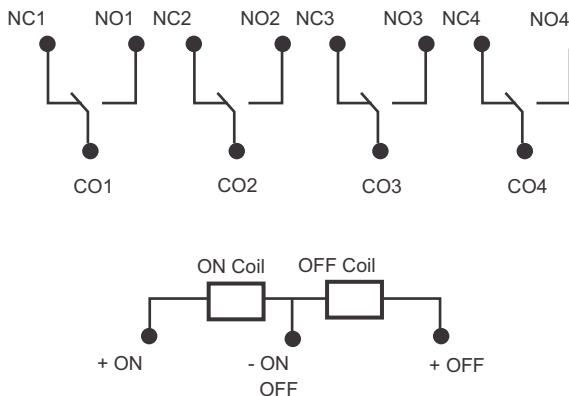
P14-3-L2VDC

Suitable Sockets : S14D, S14LD, S14P

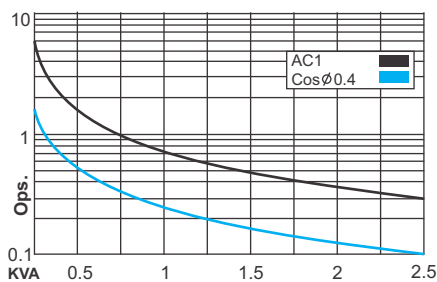


Pin configuration for P14

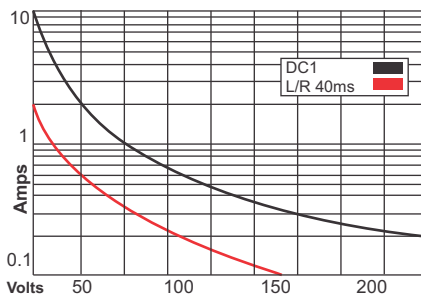
Contact Terminal Details of P14-L-R-1



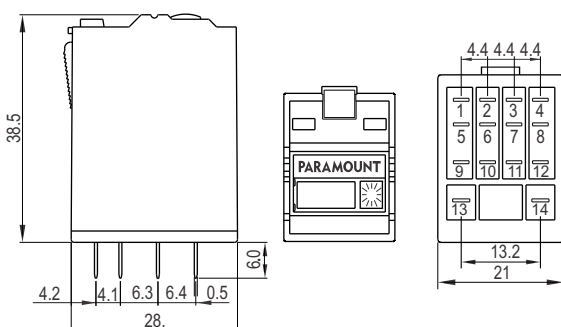
Graph 1 Electrical life, ops x 10⁶



Graph 2 Max. DC load



Dimensions in mm.



P14-LR-1

Latching Relay, 4CO Contacts

5 A 250V AC1 0.2A 110V DC1
5 A 30V AC1 0.1A 220V DC1

Contacts

Materials: Standard code 1 AgNi
 \Max. Switching Current 5 A
 Max. Peak Inrush Current (10 ms.) 15 A
 Max. Switching Voltage 250 V
 Max. AC Load (Table 1) 1200 KVA

Coils (Ohms ± 10% @ 20°C)

On Pulse Power
 Off Pulse Power 1.2 VA / 1.W
 One winding for AC. Two windings for DC 0.3 VA / 1.W

S/N	Coil Voltage	ON Coil Resistance	OFF Coil Resistance	Must Operate Voltage
1	110VDC	12.5 KΩ	6.9 KΩ	70%
2	220VDC	35 KΩ	19 KΩ	75%

Minimum pulse duration for ON and OFF coil 30 msecs

Insulation

Dielectric strength (1 min) : Open contacts 1000 V
 Between adjacent poles 2 KV
 Between contacts and coil 2KV
 Isolation Resistance @ 500V 3GΩ
 Isolation, IEC 6 18 10-5 2.5 KV / 3

Specifications

Minimum Pulse length for ON / OFF 50 ms.
 Ambient Temperature 6 ms.
 Mechanical life ops. -40°C (no ice)... +70°C
 Electrical life at nominal load 10 Million AC, 20 Million DC relays
 Operating frequency at nominal load > 100,000 ops.
 Protection degree 1,200 / hour
 Dimension (L x W x H) in mm IP40 / RT1
125 x 30 x 60

Standard Types

DC : 110V
 DC : 220V

P14-L-R-1-110VDC
P14-L-R-1-220VDC

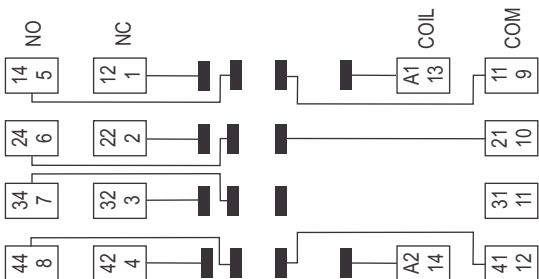


S14D

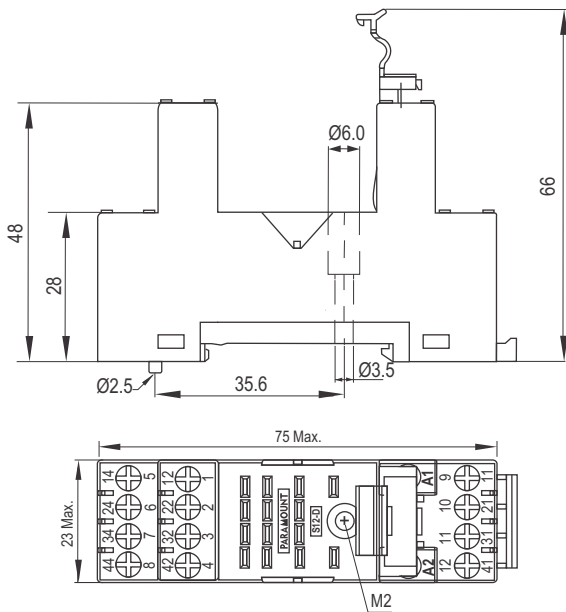
Only
23 mm
WIDE

**Socket for P14 [7A]
DIN Rail or Panel Mountable**

Wiring Diagram



Dimensions in mm.



Specifications

Poles	4 Change Over Contact
Nominal load :	7A / 250 VAC
Insulation: Di-electric strength, 1minute	
Between contact and coil	2.5 KV
Between all terminals and DIN Rail	2.5 KV
Between adjacent terminals	2.5 KV
Max. screw torque	1.2 Nm
Screw dimensions	M3, Pozi
Wire in-lets capacity:	
Solid Wire	4 mm or 2 x 2.25 mm
Multi core	22 14 AWG
Ferrule tip terminals	4 mm
Weight Approx.	61 gms.

Other Aspects

- DIN Rail / Panel Mountable
- EN / DIN Sequential Numbering according to EN 60947 & IEC 61810
- Integrated Relay Hold Down Clip
- Removable White Marking Label
- Hard Brass Tin Plated Terminals
- Brass Tin Plated Screw

Accessories

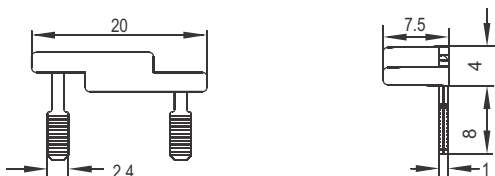


S14D-B1

Accessories

Bridge S14D-B1 for Coil Terminal

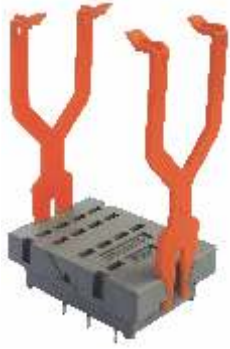
Dimensions in mm.



S14D-B1, 10A @ 250 VAC, 1 Way Bridge for Coil

Approvals

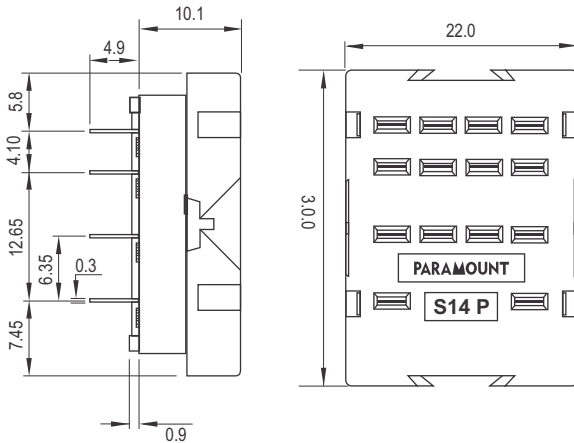




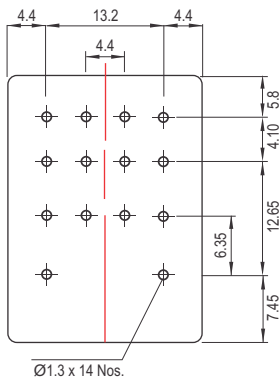
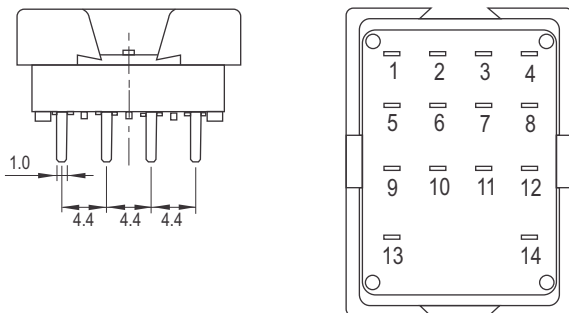
S14P

PCB Mountable Socket for P14 [7A]

Dimensions in mm.



Terminal Arrangement
(Bottom View)



Mounting Holes Tolerance ± 0.1

Specifications

Poles	4 Change Over Contact
Nominal load :	7A / 300 VAC
Di-electric strength	2.5 KV
Number of pins	8 pins
Ambent Temp	-40C + 70C
Weight Approx	8 gms

Other Aspects

- PCB Mountable
- EN / DIN Sequential Numbering according to EN 60947 & IEC 61810
- Integrated Relay Hold Down Clip
- Hard Brass Tin Plated Terminals

Approvals



Ordering Information

P14--------
1 2 3 4 5 6 7

1. Relay Type

Blank : General Purpose / Standard

2. Contact Form

Versions available

3 : 3PDT (3C/O) only for Latching
4 : 4PDT (4C/O)

3. Contact Type

Blank : Single

5. Special Types

Blank : Standard
L : Latching (Two coils with common negative)
L2 : Latching (Two independent coils)

6. Contact Material

Blank : AgNi

7. Rated Coil Voltage

6 / 12 / 24 / 48 / 110 / 220 - VDC
6 / 12 / 24 / 48 / 110 / 230 - VAC

NOTE:-

- A. For current coil please specify AC / DC coil current in place of coil voltage
- B. Standard frequency is 50 Hz for AC coil . For any other frequency please specify frequency after coil voltage

Example : P14-FPZI-24VDC means Standard, 4PDT (4 C/O Contact), with Mechanical Operation Indicator, with LED Indicator, with Free Wheeling and Polarity Diode, with Lockable & Manual Push Button. with AgNi Contacts and 24 VDC Coil