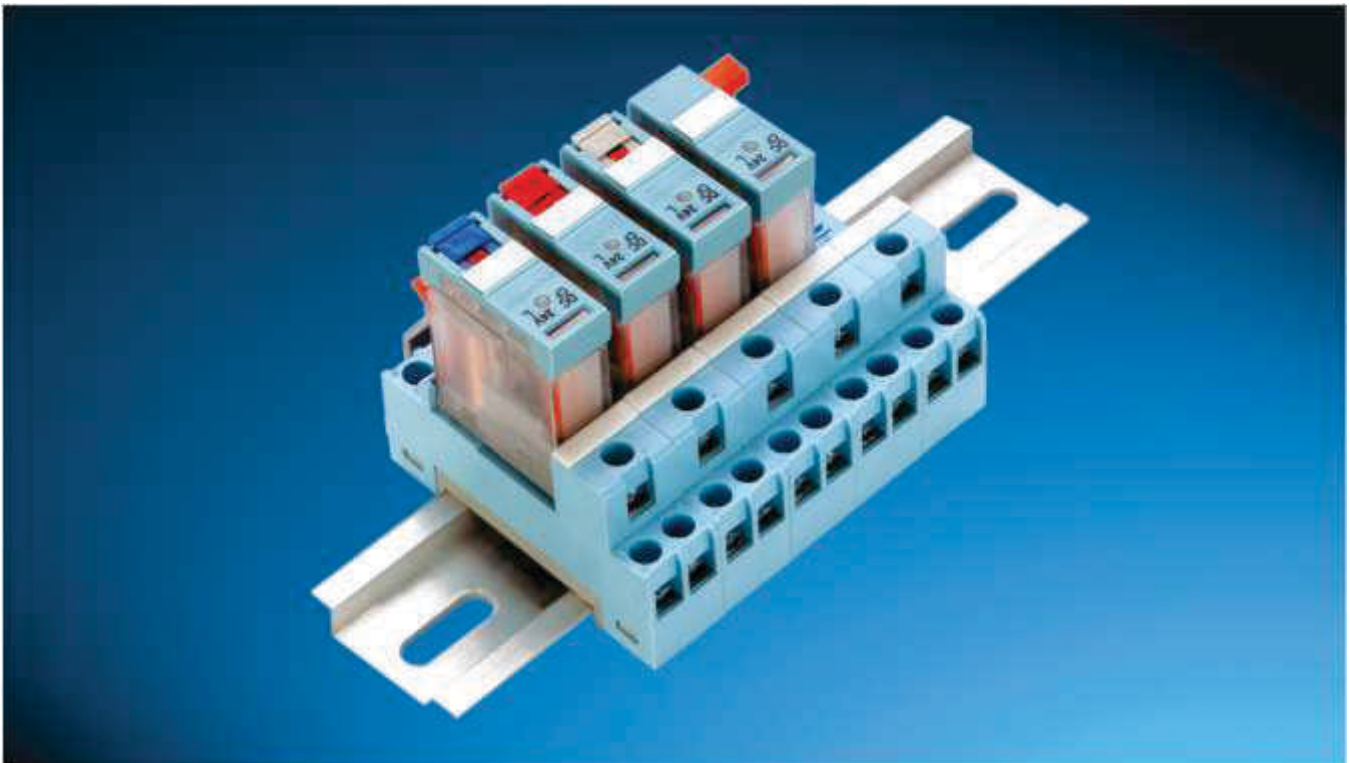
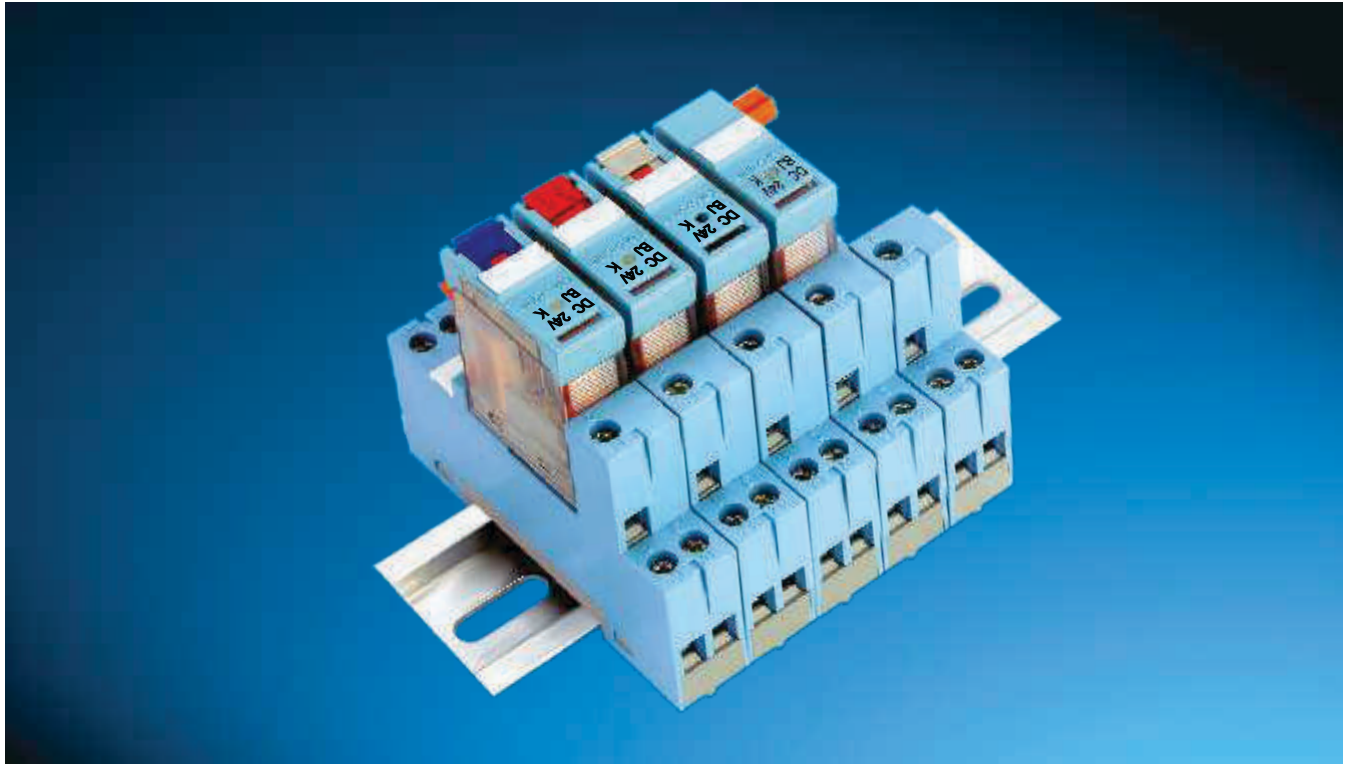


Catalogue

Series P1



Benefits
of the new



Coil Voltage Marking

Mechanical Flag Indicator

In-Built Free Wheeling Diode & Polarity Diode

Contact Rating
Standard Contact : 10 Amps @ 250V AC1
Bifurcated Contact : 6 Amps @ 250V AC1

Also available
Gold Plated Bifurcated (Twin) Contacts for low level signals upto 1mA

Contact Type:
1 Change Over Contact

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

Isolation between coil and contact 5KV

LED Indicator

Marking Label

Colour coded lock lever according to coil voltage
DC Blue
AC Red
AC / DC Grey

Push Button and Lockable Lever with 3 functions

1. Lift to lever / lockable button
2. Push to test button / Manual test button
3. Slide Lever protection against unintentional activation of test button

AC 12V, 24V, 110V, 230V
DC 12V, 24V, 48V, 110V
AC / DC 12V, 24V, 48V, 110V

Industrial 4.75mm Faston Terminals

P1 is a Single Pole Industrial Plug-in Relay with all the In-Built Mechanical and Electronic features which are a must for Input / Output PLC applications.

Finger grip for easy removal

Contact NO 1(14)
Terminals NC 3(12)
CO 2(11)

Inbuilt easy to use Retainer Clip

Socket marking label

Coil terminals (4, A1 +ve) & (5, A2 -ve)

Clearly visible Terminal numbering according to DIN & EURO Standards

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

Touch protected -ve / A2 looping bridges (S1D-B1 / S1D-B4)

Industrial size combination screws (M3)

Standard 35mm DIN rail or Panel Mountable Socket

Compact socket with width of only 14 mm

4mm

S1D is a Single Pole Two Level Touch protected Interface Socket with Input / Output configuration of Coil Terminals (A1 & A2) on one side and Contact Terminals (NO, NC, CO) on the opposite side.

Benefits
of the new



Coil Voltage Marking

Mechanical Flag Indicator

In-Built Free Wheeling Diode & Polarity Diode

Contact Rating
Standard Contact : 10 Amps @ 250V AC1
Bifurcated Contact : 6 Amps @ 250V AC1

Also available
Gold Plated Bifurcated (Twin) Contacts
for low level signals upto 1mA

Contact Type:
1 Change Over Contact

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

Isolation between coil and contact 5KV

LED Indicator

Marking Label

Colour coded lock lever
according to coil voltage
DC Blue
AC Red
AC / DC Grey

Push Button and Lockable
Lever with 3 functions

1. Lift to lever / lockable button
2. Push to test button / Manual test button
3. Slide Lever protection against unintentional activation of test button

AC 12V, 24V, 110V, 230V
DC 12V, 24V, 48V, 110V
AC / DC 12V, 24V, 48V, 110V

Industrial 4.75mm Faston Terminals

P1 is a Single Pole Industrial Plugin Relay with all the In-Built Mechanical and Electronic features which are a must for Input / Output PLC applications.

Finger grip for easy removal

Contact NO 1(14)
Terminals NC 3(12)
CO 2(11)

Socket marking label

Industrial size combination screws (M3)

Standard 35mm DIN rail or Panel Mountable Socket

Inbuilt easy to use Retainer Clip

Coil terminals (4, A1 +ve) & (5, A2 -ve)

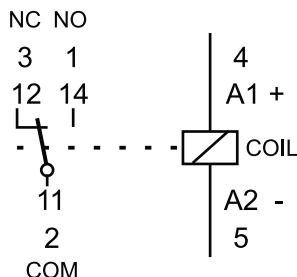
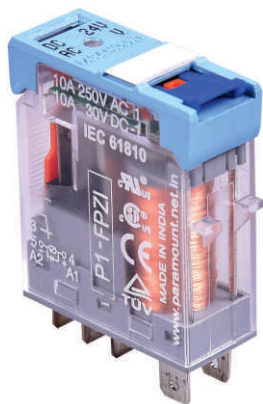
Large wire inlets (Upto 4sq mm) for easy wiring

Clearly visible Terminal numbering according to DIN & EURO Standards

Touch protected -ve / A2 looping bridges (S1LD-B1)

Compact socket with width of only 15.2 mm

S1LD is a Single Pole Two Level Touch protected Socket with Input / Output configuration of Coil Terminals (A1 & A2) on one side and Contact Terminals (NO, NC, CO) on the opposite side.



P1



One Pole, Change-Over Contact

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

Contacts

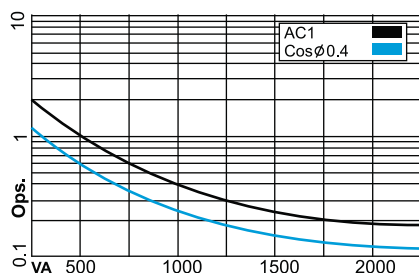
Materials: Standard	AgNi
Optional, code 1	AgNi + Au 0.2μ
Optional, code 2	AgNi + Au 5.0μ
Optional, code 3	AgSn O2
Max. switching current	10 A
Max. Peak inrush current (20 ms.)	30 A
Max. Switching voltage	250 V
Max. AC load (Graph 1)	2.5 KVA
Max. DC load	See Graph 2*

Coils (Ohms ± 10% @ 20°C)

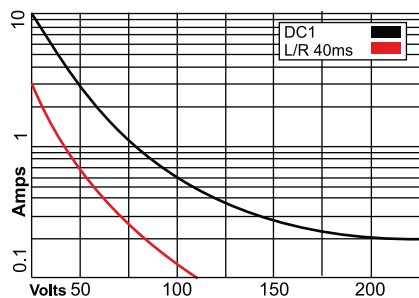
Pull-in voltage	≤ 0.8 x Un
Drop-out voltage	≥ 0.1 x Un
Nominal Coil Power	1.1 VA (AC) / 0.7 W (DC)

VAC	Ω	mA	VDC	Ω	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

Graph 1 Electrical life, ops x 10⁶



Graph 2 Max. DC load



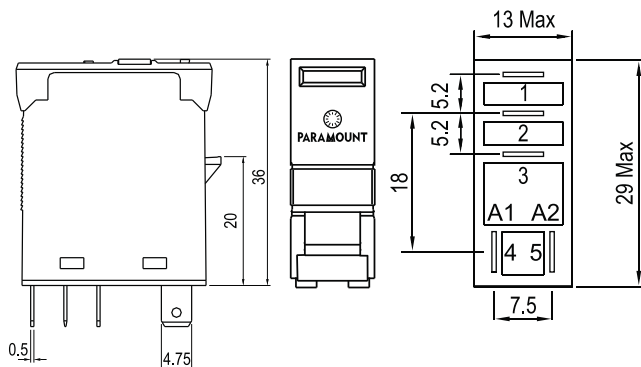
Insulation

Dielectric strength (1 minute):	
Open contacts	1 KV
Between Contacts & Coil	5 KV
Insulation resistance at 500VDC	>3GΩ
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.

Dimensions in mm.



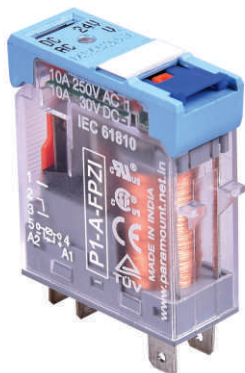
Standard types

AC 50 Hz : 24, 48, 115, 230	
F = Mechanical Flag Indicator	P1-F VAC
P = LED	P1-FP VAC
R = R/C (Snubber Circuit) (115/230V)	P1-FPR VAC
DC 6, 12, 24, 48, 110	
F = Mechanical Flag Indicator	P1-F VDC
P = LED	P1-FP VDC
W = Free-Wheeling Diodes	P1-FPW VDC
Z = Polarity & Free-Wheeling Diodes	P1-FPZ VDC
I = Lockable & Manual Push Button	P1-FPZI VDC
B = AC/DC Bridge Rectifier (24/48V)	P1-FPB VDC

Suitable Sockets : S10K, S1D, S1LD, S1HD, S1P, SN1P

Approvals





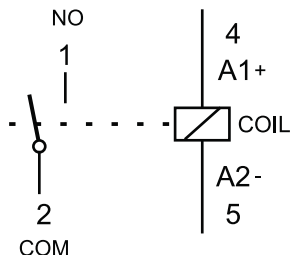
P1-A

One Pole, Normally Open Contact

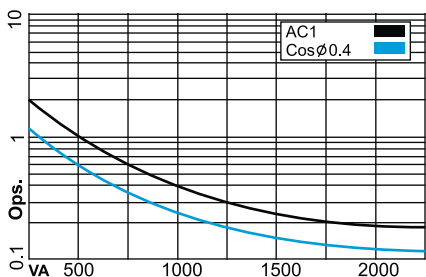
10A 250V AC1 0.8A 110V DC1
10A 30V DC1 0.4A 220V DC1

Contacts

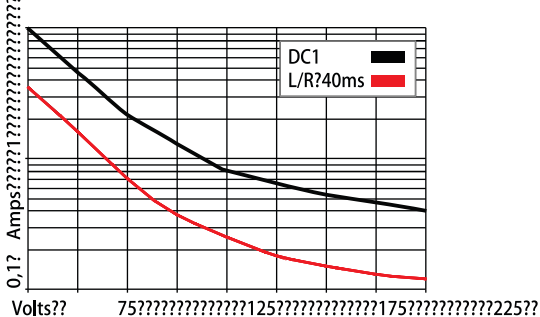
Materials: Standard AgNi
 Optional, code 1 AgNi + Au 0.2μ
 Optional, code 2 AgNi + Au 5.0μ
 Optional, code 3 AgSn O2
 Max. switching current 10 A
 Max. Peak inrush current (20 ms.) 30 A
 Max. Switching voltage 250 V
 Max. AC load (Graph 1) 2.5 KVA
 Max. DC load See Graph 2*



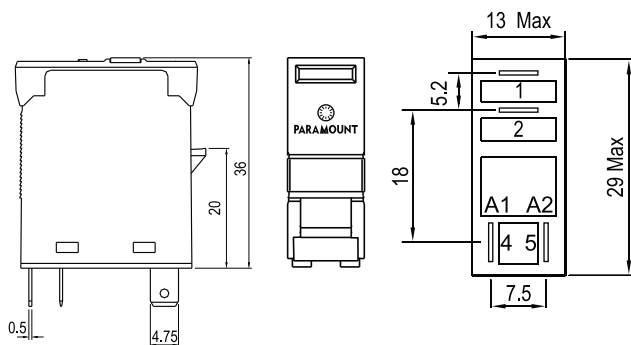
Graph 1 Electrical life, ops x 10⁶



Graph 3 Max. DC load



Dimensions in mm.



Coils (Ohms ± 10% @ 20°C)

Pull-in voltage ≤ 0.8 x Un
 Drop-out voltage ≥ 0.1 x Un
 Nominal Coil Power 1.1 VA (AC) / 0.7 W (DC)

VAC	Ω	mA	VDC	Ω	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 2 KV
 Between Contacts & Coil 5 KV
 Insulation resistance at 500VDC >3GΩ
 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 Grade IP40 / RT1
 Weight Approx. 21 gms.

Standard types

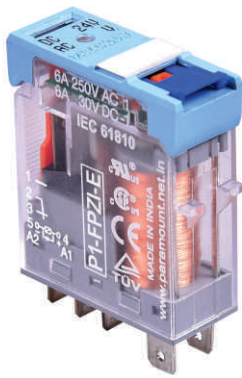
AC 50 Hz : 24, 48, 115, 230
 F = Mechanical Flag Indicator **P1-A-F** VAC
 P = LED **P1-A-FP** VAC
 R = R/C (Snubber Circuit) (115/230v) **P1-A-FPR** VAC

DC 12, 24, 48, 110
 F = Mechanical Flag Indicator **P1-A-F** VDC
 P = LED **P1-A-FP** VDC
 W = Polarity & Free-Wheeling Diodes **P1-A-FPW** VDC
 I = Lockable & Manual Push Button **P1-A-FPI** VDC
 Z = Polarity & Free-Wheeling Diodes **P1-A-FPZ** VDC
 B = AC/DC Bridge Rectifier (24/48V) **P1-A-FPB** VDC

Suitable Sockets : S10K, S1D-A, S1LD-A, S1HD-A, S1P, SN1P

Approvals



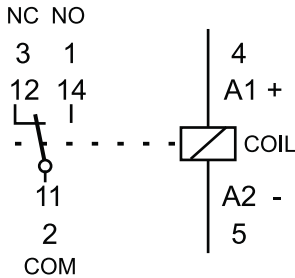


P1...E



One Pole, Change-Over Contact

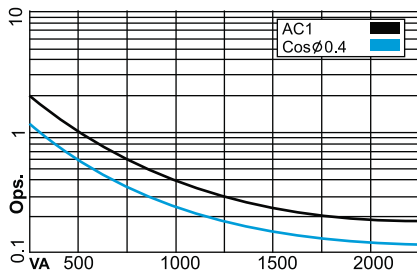
6A 250V AC1 0.2A 220V DC1
6A 30V DC1 0.5A 110V DC1



Contacts

Materials: Standard	AgNi
Optional, code 1	AgNi + Au 0.2μ
Optional, code 2	AgNi + Au 5.0μ
Optional, code 3	AgSn O2
Max. switching current	6 A
Max. Peak inrush current (20 ms.)	15 A
Max. Switching voltage	250 V
Max. AC load (Graph 1)	2.5 KVA
Max. DC load	See Graph 2*

Graph 1 Electrical life, ops x 10⁶

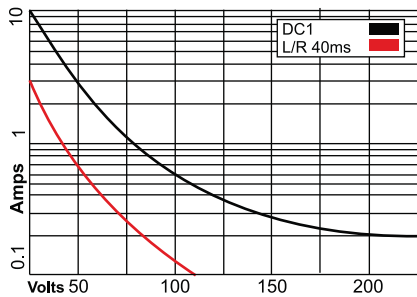


Coils (Ohms ± 10% @ 20°C)

Pull-in voltage	≤ 0.8 x Un
Drop-out voltage	≥ 0.1 x Un
Nominal Coil Power	1.1 VA (AC) / 0.7 W (DC)

VAC	Ω	mA	VDC	Ω	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

Graph 2 Max. DC load



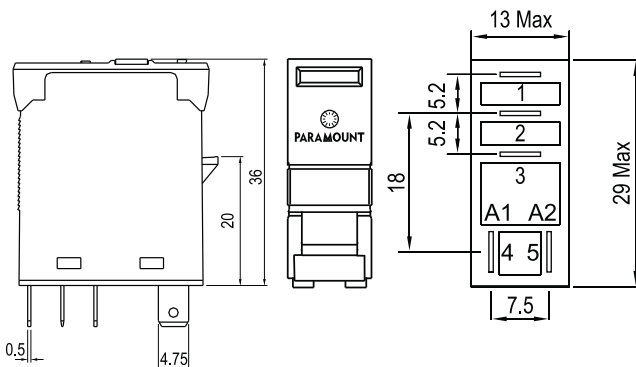
Insulation

Dielectric strength (1 minute):	
Open contacts	1 KV
Between Contacts & Coil	5 KV
Insulation resistance at 500VDC	>3GΩ
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.

Dimensions in mm.



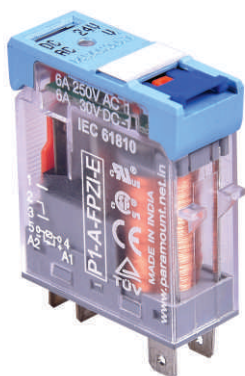
Standard types

AC 50 Hz : 24, 48, 115, 230	
F = Mechanical Flag Indicator	P1-F-E VAC
P = LED	P1-FP-E VAC
R = R/C (Snubber Circuit) (115/230V)	P1-FPR-E VAC
DC 6, 12, 24, 48, 110	
F = Mechanical Flag Indicator	P1-F-E VDC
P = LED	P1-FP-E VDC
W = Free-Wheeling Diodes	P1-FPW-E VDC
Z = Polarity & Free-Wheeling Diodes	P1-FPZ-E VDC
I = Lockable & Manual Push Button	P1-FPZI-E VDC
B = AC/DC Bridge Rectifier (24/48V)	P1-FPB-E VDC

Suitable Sockets : S10K, S1D, S1LD, S1HD, S1P, SN1P

Approvals

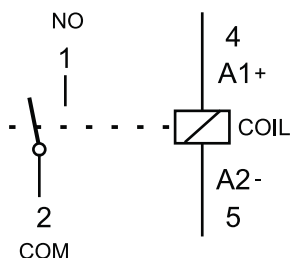




P1-A...E

One Pole, Normally Open Contact

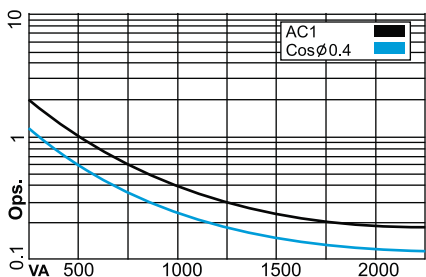
6A 250V AC1 0.8A 110V DC1
6A 30V DC1 0.4A 220V DC1



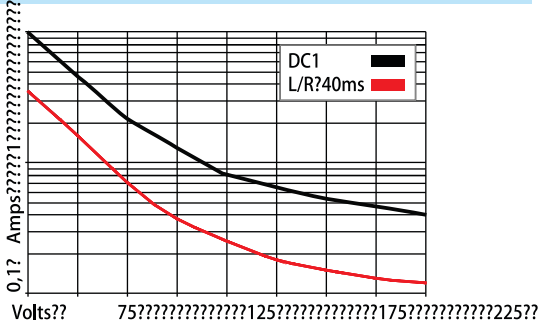
Contacts

Materials: Standard	AgNi
Optional, code 1	AgNi + Au 0.2μ
Optional, code 2	AgNi + Au 5.0μ
Optional, code 3	AgSn O2
Max. switching current	6 A
Max. Peak inrush current (20 ms.)	15 A
Max. Switching voltage	250 V
Max. AC load (Graph 1)	2.5 KVA
Max. DC load	See Graph 2*

Graph 1 Electrical life, ops x 10⁶



Graph 3 Max. DC load



Coils (Ohms ± 10% @ 20°C)

Pull-in voltage	≤ 0.8 x Un
Drop-out voltage	≥ 0.1 x Un
Nominal Coil Power	1.1 VA (AC) / 0.7 W (DC)

VAC	Ω	mA	VDC	Ω	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

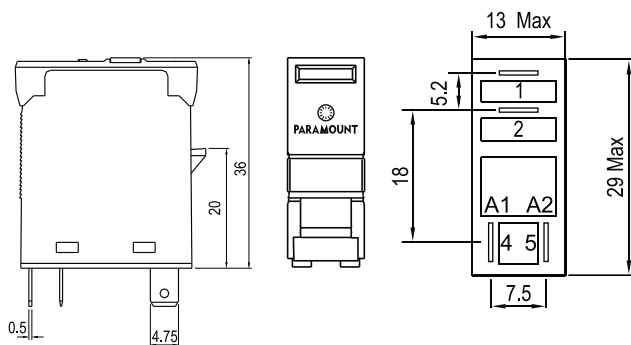
Insulation

Dielectric strength (1 minute):	
Open contacts	2 KV
Between Contacts & Coil	5 KV
Insulation resistance at 500VDC	>3GΩ
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 Grade	IP40 / RT1
Weight Approx.	21 gms.

Dimensions in mm.



Standard types

AC 50 Hz : 24, 48, 115, 230	
F = Mechanical Flag Indicator	P1-A-F-E VAC
P = LED	P1-A-FP-E VAC
R = R/C (Snubber Circuit) (115/230v)	P1-A-FPR-E VAC
DC 12, 24, 48, 110	
F = Mechanical Flag Indicator	P1-A-F-E VDC
P = LED	P1-A-FP-E VDC
W = Polarity & Free-Wheeling Diodes	P1-A-FPW-E VDC
I = Lockable & Manual Push Button	P1-A-FPI-E VDC
Z = Polarity & Free-Wheeling Diodes	P1-A-FPZ-E VDC
B = AC/DC Bridge Rectifier (24/48V)	P1-A-FPB-E VDC

Suitable Sockets : S10K, S1D-A, S1LD-A, S1HD-A, S1P, SN1P

Approvals



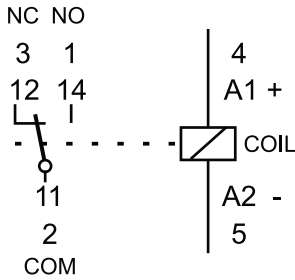


P1...E1



One Pole, Change-Over Contact

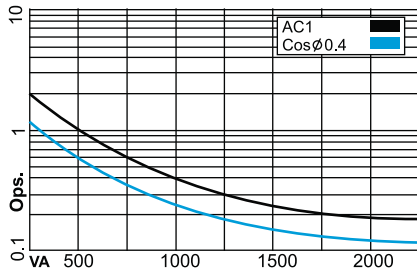
10A 250V AC1 0.2A 220V DC1
10A 30V DC1 0.5A 110V DC1



Contacts

Materials: Standard	AgNi
Optional, code 1	AgNi + Au 0.2μ
Optional, code 2	AgNi + Au 5.0μ
Optional, code 3	AgSn O2
Max. switching current	10 A
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*

Graph 1 Electrical life, ops x 10⁶

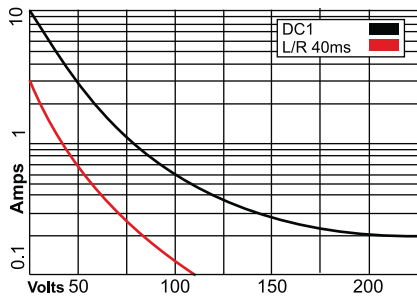


Coils (Ohms ± 10% @ 20°C)

Pull-in voltage	≤ 0.8 x Un
Drop-out voltage	≥ 0.1 x Un
Nominal Coil Power	1.1 VA (AC) / 0.7 W (DC)

VAC	Ω	mA	VDC	Ω	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

Graph 2 Max. DC load



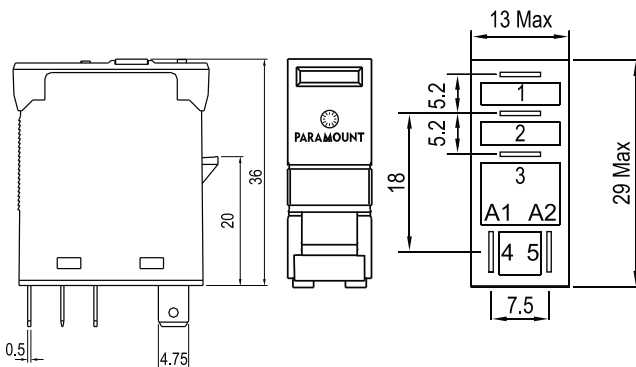
Insulation

Dielectric strength (1 minute):	
Open contacts	1 KV
Between Contacts & Coil	5 KV
Insulation resistance at 500VDC	>3GΩ
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.

Dimensions in mm.



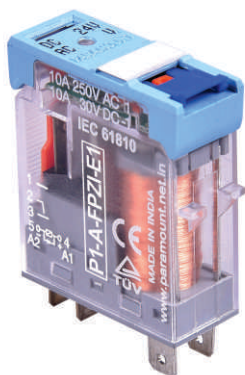
Standard types

AC 50 Hz : 24, 48, 115, 230	
F = Mechanical Flag Indicator	P1-F-E1 VAC
P = LED	P1-FP-E1 VAC
R = R/C (Snubber Circuit) (115/230V)	P1-FPR-E1 VAC
DC 6, 12, 24, 48, 110	
F = Mechanical Flag Indicator	P1-F-E1 VDC
P = LED	P1-FP-E1 VDC
W = Free-Wheeling Diodes	P1-FPW-E1 VDC
Z = Polarity & Free-Wheeling Diodes	P1-FPZ-E1 VDC
I = Lockable & Manual Push Button	P1-FPZI-E1 VDC
B = AC/DC Bridge Rectifier (24/48V)	P1-FPB-E1 VDC

Suitable Sockets : S1D-E, S1LD-E, S1HD-E

Approvals

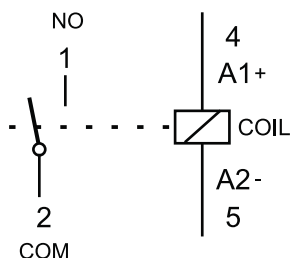




P1-A...E1

One Pole, Normally Open Contact

10A 250V AC1 0.8A 110V DC1
10A 30V DC1 0.4A 220V DC1



Contacts

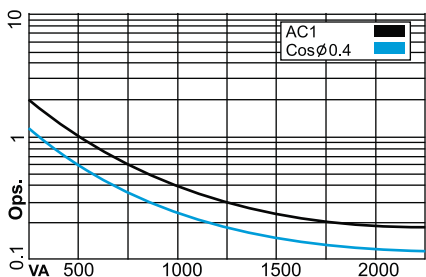
Materials: Standard	AgNi
Optional, code 1	AgNi + Au 0.2μ
Optional, code 2	AgNi + Au 5.0μ
Optional, code 3	AgSn O2
Max. switching current	10 A
Max. Peak inrush current (20 ms.)	30 A
Max. Switching voltage	250 V
Max. AC load (Graph 1)	2.5 KVA
Max. DC load	See Graph 2*

Coils (Ohms ± 10% @ 20°C)

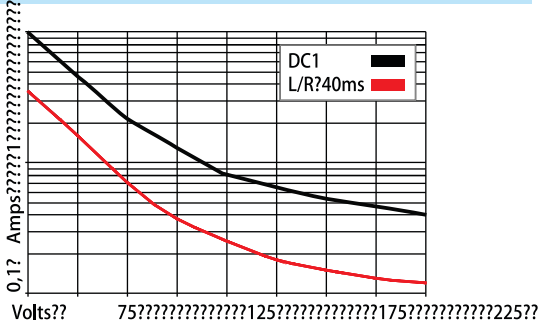
Pull-in voltage	≤ 0.8 x Un
Drop-out voltage	≥ 0.1 x Un
Nominal Coil Power	1.1 VA (AC) / 0.7 W (DC)

VAC	Ω	mA	VDC	Ω	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

Graph 1 Electrical life, ops x 10⁶



Graph 3 Max. DC load



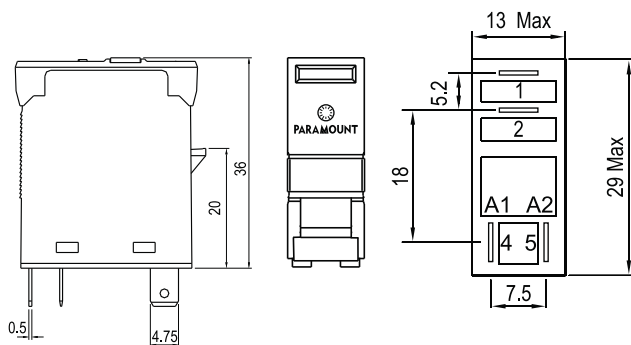
Insulation

Dielectric strength (1 minute):	
Open contacts	2 KV
Between Contacts & Coil	5 KV
Insulation resistance at 500VDC	>3GΩ
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 Grade	IP40 / RT1
Weight Approx.	21 gms.

Dimensions in mm.



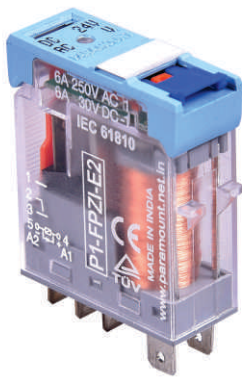
Standard types

AC 50 Hz : 24, 48, 115, 230	
F = Mechanical Flag Indicator	P1-A-F-E1 VAC
P = LED	P1-A-FP-E1 VAC
R = R/C (Snubber Circuit) (115/230v)	P1-A-FPR-E1 VAC
DC 12, 24, 48, 110	
F = Mechanical Flag Indicator	P1-A-F-E1 VDC
P = LED	P1-A-FP-E1 VDC
W = Polarity & Free-Wheeling Diodes	P1-A-FPW-E1 VDC
I = Lockable & Manual Push Button	P1-A-FPI-E1 VDC
Z = Polarity & Free-Wheeling Diodes	P1-A-FPZ-E1 VDC
B = AC/DC Bridge Rectifier (24/48V)	P1-A-FPB-E1 VDC

Suitable Sockets : S10K, S1D-A-E, S1LD-A-E, S1HD-A-E, S1P, SN1P

Approvals



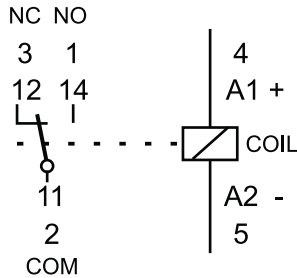


P1...E2



One Pole, Change-Over Contact

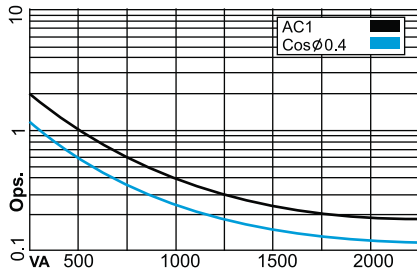
6A 250V AC1 0.2A 220V DC1
6A 30V DC1 0.5A 110V DC1



Contacts

Materials: Standard	AgNi
Optional, code 1	AgNi + Au 0.2μ
Optional, code 2	AgNi + Au 5.0μ
Optional, code 3	AgSn O2
Max. switching current	6 A
Max. Peak inrush current (20 ms.)	15 A
Max. Switching voltage	250 V
Max. AC load (Graph 1)	2.5 KVA
Max. DC load	See Graph 2*

Graph 1 Electrical life, ops x 10⁶

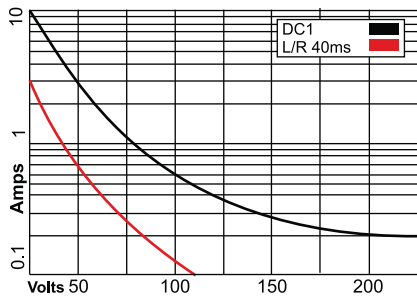


Coils (Ohms ± 10% @ 20°C)

Pull-in voltage	≤ 0.8 x Un
Drop-out voltage	≥ 0.1 x Un
Nominal Coil Power	1.1 VA (AC) / 0.7 W (DC)

VAC	Ω	mA	VDC	Ω	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

Graph 2 Max. DC load



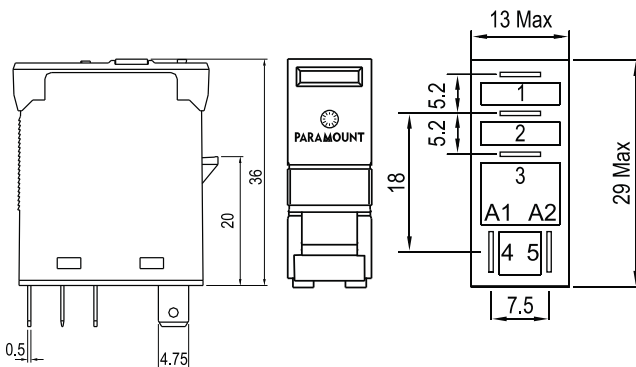
Insulation

Dielectric strength (1 minute):	
Open contacts	1 KV
Between Contacts & Coil	5 KV
Insulation resistance at 500VDC	>3GΩ
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.

Dimensions in mm.



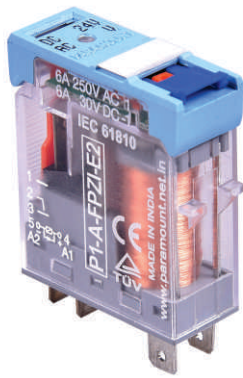
Standard types

AC 50 Hz : 24, 48, 115, 230	
F = Mechanical Flag Indicator	P1-F-E2 VAC
P = LED	P1-FP-E2 VAC
R = R/C (Snubber Circuit) (115/230V)	P1-FPR-E2 VAC
DC 6, 12, 24, 48, 110	
F = Mechanical Flag Indicator	P1-F-E2 VDC
P = LED	P1-FP-E2 VDC
W = Free-Wheeling Diodes	P1-FPW-E2 VDC
Z = Polarity & Free-Wheeling Diodes	P1-FPZ-E2 VDC
I = Lockable & Manual Push Button	P1-FPZI-E2 VDC
B = AC/DC Bridge Rectifier (24/48V)	P1-FPB-E2 VDC

Suitable Sockets : S10K, S1D-E, S1LD-E, S1HD-E, S1P, SN1P

Approvals

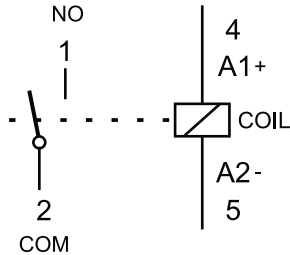




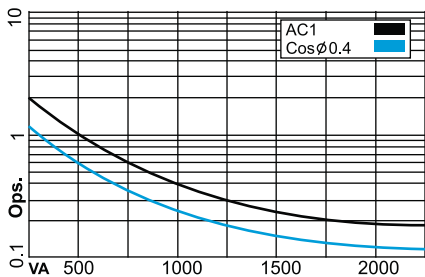
P1-A...E2

One Pole, Normally Open Contact

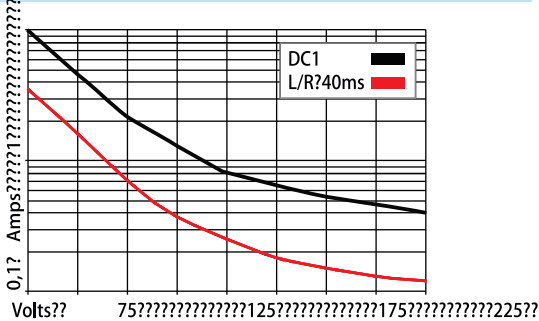
6A 250V AC1 0.8A 110V DC1
6A 30V DC1 0.4A 220V DC1



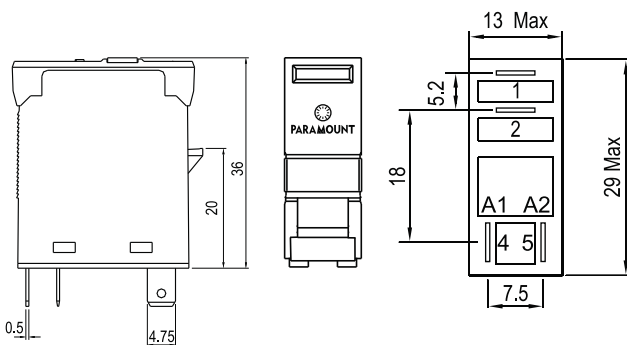
Graph 1 Electrical life, ops x 10⁶



Graph 3 Max. DC load



Dimensions in mm.



Contacts

Materials: Standard AgNi
Optional, code 1 AgNi + Au 0.2μ
Optional, code 2 AgNi + Au 5.0μ
Optional, code 3 AgSn O2
Max. switching current 6 A
Max. Peak inrush current (20 ms.) 15 A
Max. Switching voltage 250 V
Max. AC load (Graph 1) 2.5 KVA
Max. DC load See Graph 2*

Coils (Ohms ± 10% @ 20°C)

Pull-in voltage ≤ 0.8 x Un
Drop-out voltage ≥ 0.1 x Un
Nominal Coil Power 1.1 VA (AC) / 0.7 W (DC)

VAC	Ω	mA	VDC	Ω	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 2 KV
Between Contacts & Coil 5 KV
Insulation resistance at 500VDC >3GΩ
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 Grade IP40 / RT1
Weight Approx. 21 gms.

Standard types

AC 50 Hz : 24, 48, 115, 230
F = Mechanical Flag Indicator
P = LED
R = R/C (Snubber Circuit) (115/230v)
DC 12, 24, 48, 110
F = Mechanical Flag Indicator
P = LED
W = Polarity & Free-Wheeling Diodes
I = Lockable & Manual Push Button
Z = Polarity & Free-Wheeling Diodes
B = AC/DC Bridge Rectifier (24/48V)

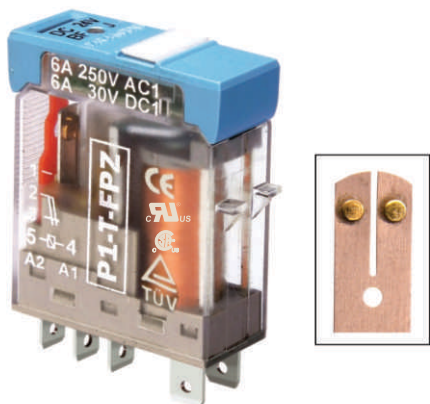
P1-A-F-E2 VAC
P1-A-FP-E2 VAC
P1-A-FPR-E2 VAC

P1-A-F-E2 VDC
P1-A-FP-E2 VDC
P1-A-FPW-E2 VDC
P1-A-FPI-E2 VDC
P1-A-FPZ-E2 VDC
P1-A-FPB-E2 VDC

Suitable Sockets : S10K, S1D-A-E, S1LD-A-E, S1HD-A-E, S1P, SN1P

Approvals





P1-T

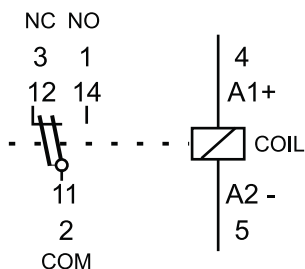


One Pole, Change-Over Twin Contact

6A 250V AC1 0.5A 110V DC1
6A 30V DC1 0.2A 220V DC1

Contacts

Materials: Standard
Optional, code 1 AgNi + Au 0.2μ
Optional, code 2 AgNi + Au 5.0μ
Max. switching current 6 A
Max. Peak inrush current (20 ms.) 15 A
Max. Switching voltage 250 V
Max. AC load (Graph 4) * 1.5KVA
Max. DC load See Graph 5 *

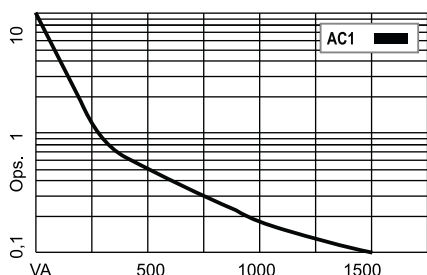


Coils (Ohms ± 10% @ 20°C)

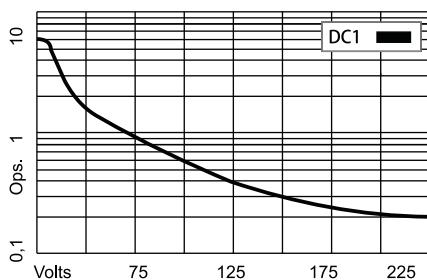
Pull-in voltage ≤ 0.8 x Un
Drop-out voltage ≥ 0.1 x Un
Nominal Coil Power 1.1 VA (AC) / 0.7 W (DC)

VAC	Ω	mA	VDC	Ω	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

Graph 4 Electrical life, ops x 10⁶



Graph 5 Max. DC load



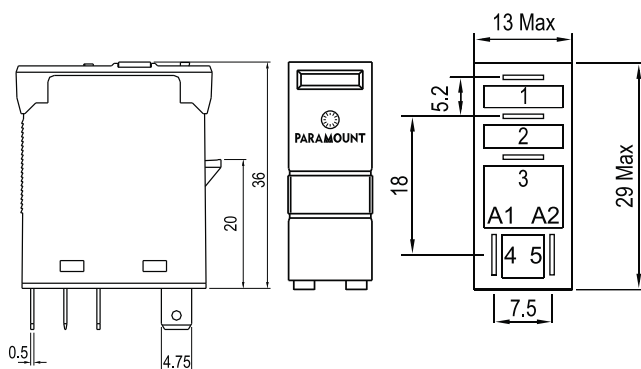
Insulation

Dielectric strength (1 minute):
Open contacts 1 KV
Between Contacts & Coil 5 KV
Insulation resistance at 500VDC >3GΩ
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 Grade IP40 / RT1
Weight Approx. 21 gms.

Dimensions in mm.



Standard types

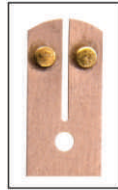
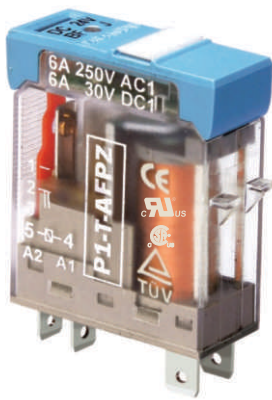
AC 50 Hz : 24, 48, 115, 230
F = Mechanical Flag Indicator
P = LED
R = R/C (Snubber Circuit) (115/230)
DC 6, 12, 24, 48, 110
F = Mechanical Flag Indicator
P = LED
W = Free-Wheeling Diodes
Z = Polarity & Free-Wheeling Diodes
I = Lockable & Manual Push Button
B = AC/DC Bridge Rectifier (24/48V)

P1-T-F VAC
P1-T-FP VAC
P1-T-FPR VAC
P1-T-F VDC
P1-T-FP VDC
P1-T-FPW.... VDC
P1-T-FPZ VDC
P1-T-FPI VDC
P1-T-FPB VDC

Suitable Sockets : S10K, S1D, S1LD, S1HD, S1P, SN1P

Approvals





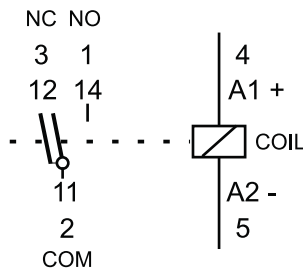
P1-T-A

One Pole, Normally Open Twin Contact

6A 250V AC1 0.5A 110V DC1
6A 30V DC1 0.2A 220V DC1

Contacts

Materials: Standard
Optional, code 1 AgNi + Au 0.2μ
Optional, code 2 AgNi + Au 5.0μ
Max. switching current 6 A
Max. Peak inrush current (20 ms.) 15 A
Max. Switching voltage 250 V
Max. AC load (Graph 4) * 1.5KVA
Max. DC load See Graph 5 *



Coils (Ohms ± 10% @ 20°C)

Pull-in voltage ≤ 0.8 x Un
Drop-out voltage ≥ 0.1 x Un
Nominal Coil Power 1.1 VA (AC) / 0.7 W (DC)

VAC	Ω	mA	VDC	Ω	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 >3GΩ
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 Grade IP40 / RT1
Weight Approx. 21 gms.

Standard types

AC 50 Hz : 24, 48, 115, 230
F = Mechanical Flag Indicator
P = LED
R = R/C (Snubber Circuit) (115/230)
DC 12, 24, 48, 110
F = Mechanical Flag Indicator
P = LED
W = Free-Wheeling Diodes
Z= Polarity & Free-Wheeling Diodes
I = Lockable & Manual Push Button
B = AC/DC Bridge Rectifier (24/48V)

P1-T-A-F VAC
P1-T-A-FP VAC
P1-T-A-FPR VAC

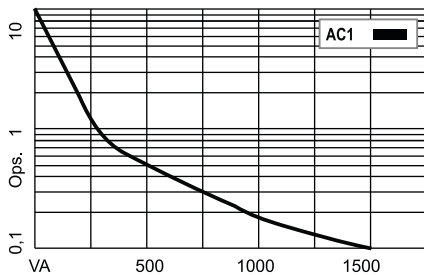
P1-T-A-F VDC
P1-T-A-FP VDC
P1-T-A-FPW.... VDC
P1-T-A-FPZ VDC
P1-T-A-FPI VDC
P1-T-A-FPB VDC

Suitable Sockets : S10K, S1D-A, S1LD-A, S1HD-A, S1P, SN1P

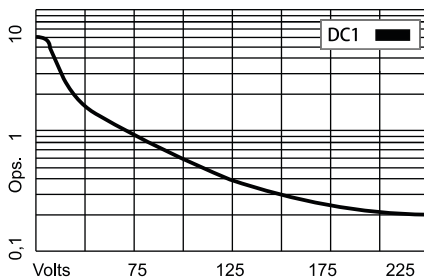
Approvals



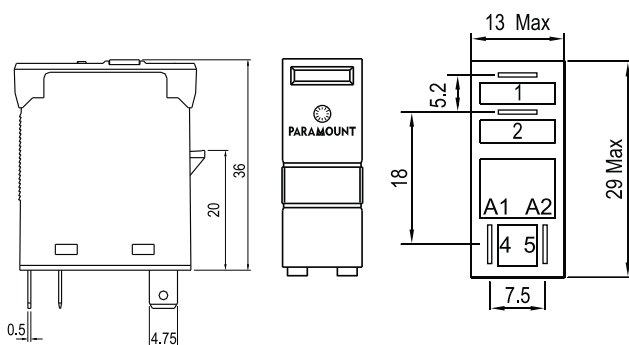
Graph 4 Electrical life, ops x 10⁶

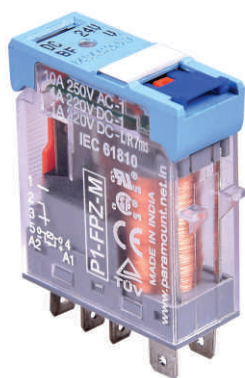


Graph 5 Max. DC load



Dimensions in mm.





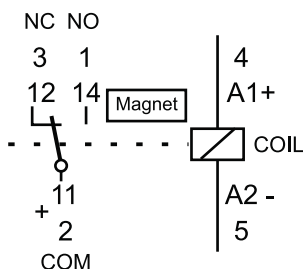
P1...M

MAGNETIC BLOW OUT

One Pole, Change-Over Contact

10A 250V AC1 4A 220V DC1

10A 30V DC1 1A 220V DC L/R 7ms



Contacts

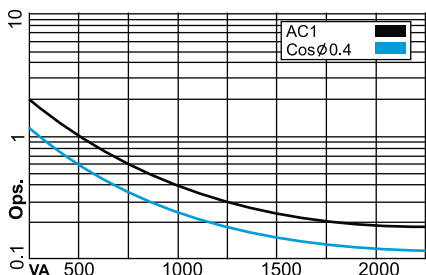
Materials: Standard	AgNi
Optional, code 1	AgNi + Au 0.2μ
Optional, code 2	AgNi + Au 5.0μ
Optional, code 3	AgSn O2
Max. switching current	10 A
Max. Peak inrush current (20 ms.)	30 A
Max. Switching voltage	250 V
Max. AC load (Graph 1) *	2.5 KVA
Max. DC load	See Graph 6*

Coils (Ohms ± 10% @ 20°C)

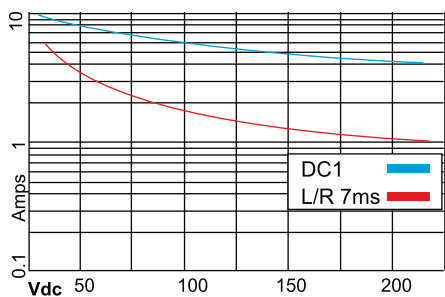
Pull-in voltage	≤ 0.8 x Un
Drop-out voltage	≥ 0.1 x Un
Nominal Coil Power	1.1 VA (AC) / 0.7 W (DC)

VAC	Ω	mA	VDC	Ω	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

Graph 1 Electrical life, ops x 10⁶



Graph 6 Max. DC load



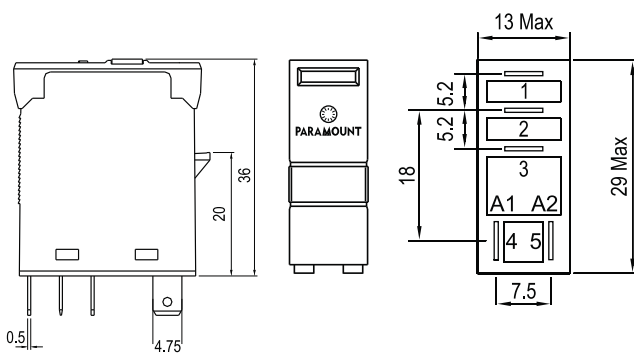
Insulation

Dielectric strength (1 minute):	
Open contacts	1 KV
Between Contacts & Coil	5 KV
Insulation resistance at 500VDC	>3GΩ
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 Grade	IP40 / RT1
Weight Approx.	21 gms.

Dimensions in mm.



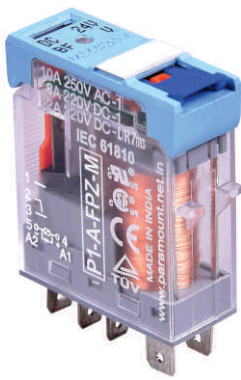
Standard types

AC : 24, 48, 115, 230	
M = Magnetic Blow Out	
F = Mechanical Flag Indicator	P1-FM VAC
P = LED	P1-FPM VAC
DC : 12, 24, 48, 110	
F = Mechanical Flag Indicator	P1-FM VDC
P = LED	P1-FPM VDC
W = Free Wheeling Diode	P1-FPWM VDC
Z = Polarity & Free Wheeling Diode	P1-FPZM VDC
I = Lockable & Manual Push Button	P1-FPZIM VDC

Suitable Sockets : S10K, S1D, S1LD, S1HD, S1P, SN1P

Approvals



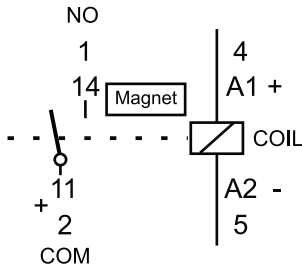


P1-A...M

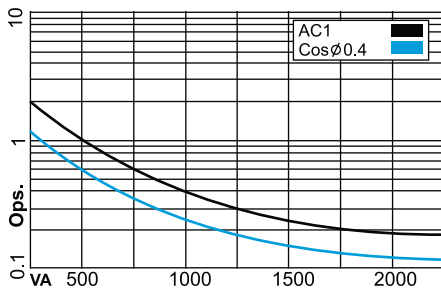
MAGNETIC BLOW OUT

One Pole, Normally Open Contact

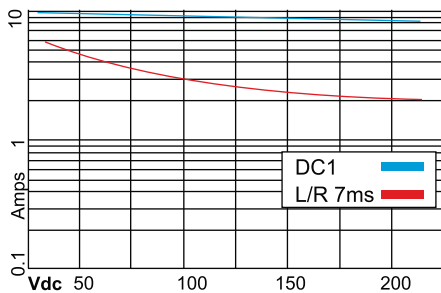
**10A 250V AC1 8A 220V DC1
10A 30V DC1 2A 220V DC L/R 7ms**



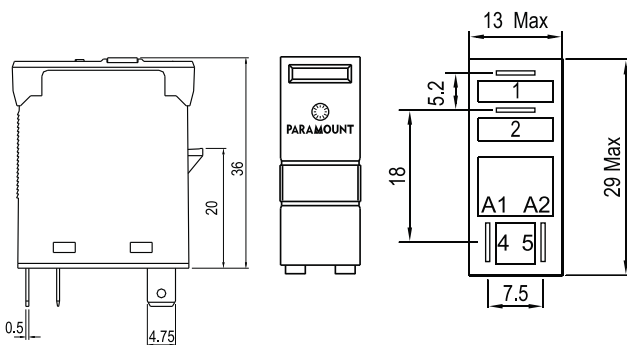
Graph 1 Electrical life, ops x 10⁶



Graph 7 Max. DC load



Dimensions in mm.



Contacts

Materials: Standard AgNi
Optional, code 1 AgNi + Au 0.2μ
Optional, code 2 AgNi + Au 5.0μ
Optional, code 3 AgSn O2
Max. switching current 10 A
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 7*

Coils (Ohms ± 10% @ 20°C)

Pull-in voltage ≤ 0.8 x Un
Drop-out voltage ≥ 0.1 x Un
Nominal Coil Power 1.1 VA (AC) / 0.7 W (DC)

VAC	Ω	mA	VDC	Ω	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 >3GΩ
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 Grade IP40 / RT1
Weight Approx. 21 gms.

Standard types

AC : 24, 48, 115, 230

M = Magnetic Blow Out

F = Mechanical Flag Indicator

P = LED

P1-A-FM VAC

P1-A-FPM VAC

DC : 12, 24, 48, 110

F = Mechanical Flag Indicator

P = LED

W = Free Wheeling Diode

Z = Polarity & Free Wheeling Diode

I = Lockable & Manual Push Button

P1-A-FM VDC

P1-A-FPM VDC

P1-A-FPWM VDC

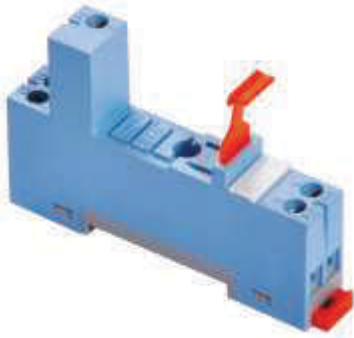
P1-A-FPZM VDC

P1-FPZIM VDC

Suitable Sockets : S10K, S1D-A, S1LD-A, S1HD-A, S1P, SN1P

Approvals



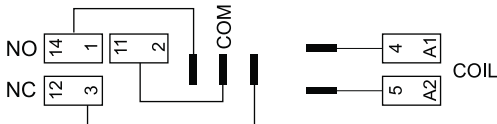


S1D

Only
14 mm
WIDE

**Input / Output Socket [10A] for
P1 CO Relays DIN Rail or Panel Mountable**

Wiring Diagram



Specifications

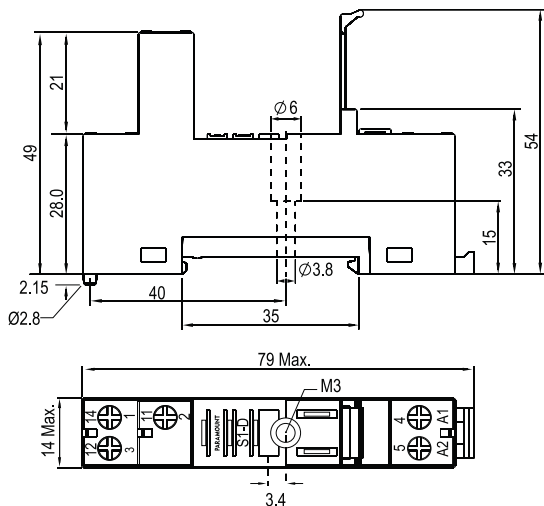
Poles: 1 Change Over Contact
Nominal load: 10A / 250V

Insulation: Di-electric strength, 1minute
Between contact and coil: 5 KV
Between all terminals and DIN Rail: 5 KV
Between adjacent terminals: 3 KV

Brass Tin Plated Screw
Max. screw torque: 1.2 Nm
Screw dimensions: M3, Pozi

Wire in-lets capacity:
Solid Wire: 4 mm² or 2 x 2.25 mm²
Multi core: 22 14 AWG
Ferrule tip terminals: 4 mm²

Dimensions in mm.



Other Aspects

Weight Approx.: 28 gms
DIN Rail / Panel Mountable
Integrated Relay Hold Down Clip
Removable White Marking Label
EN / DIN Sequential Numbering according to EN 60947 & IEC 61810

Accessories

S1D-B1



S1D-B4



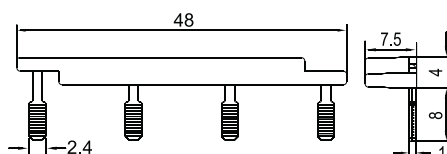
Accessories

Bridge Bar S1D-B1 & S1D-B4 for Coil Terminal (A2 / 5)

Dimensions in mm.



S1D-B1, 10A @ 250 VAC, 1 Way Bridge for Coil



S1D-B4, 10A @ 250 VAC, 4 Way Bridge for Coil

Suitable Relays : P1, P1-T, P1-M, P1-E

Approvals



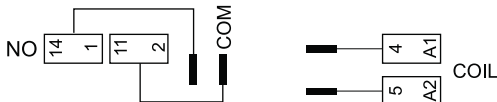


S1D-A

Only
14 mm
WIDE

**Input / Output Socket [10A] for
P1 NO Relays DIN Rail or Panel Mountable**

Wiring Diagram



Specifications

Poles: 1 Normally Open Contact
Nominal load: 10A / 250V

Insulation: Di-electric strength, 1minute
Between contact and coil: 5 KV
Between all terminals and DIN Rail: 5 KV
Between adjacent terminals: 3 KV

Brass Tin Plated Screw
Max. screw torque: 1.2 Nm
Screw dimensions: M3, Pozi

Wire in-lets capacity:

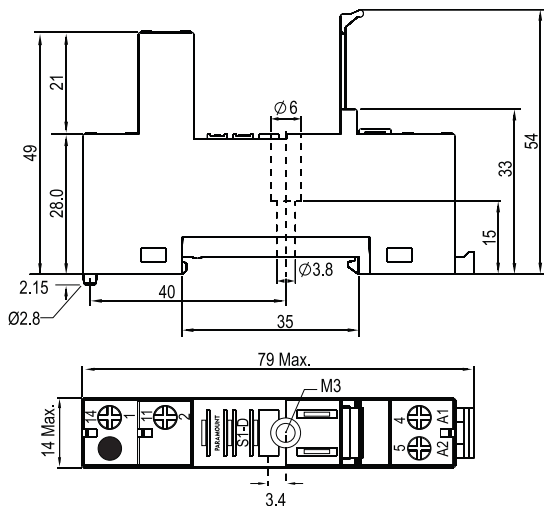
Solid Wire: 4 mm² or 2 x 2.25 mm²
Multi core: 22 14 AWG
Ferrule tip terminals: 4 mm²

Other Aspects

Weight Approx.: 28 gms
DIN Rail / Panel Mountable
Integrated Relay Hold Down Clip
Removable White Marking Label
EN / DIN Sequential Numbering according to EN 60947 & IEC 61810

Dimensions

in mm.



Accessories

S1D-B1



S1D-B4



Accessories

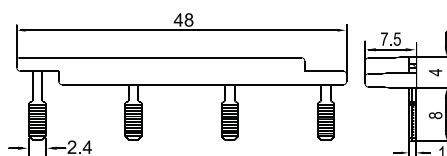
Bridge Bar S1D-B1 & S1D-B4 for Coil Terminal (A2 / 5)

Dimensions

in mm.



S1D-B1, 10A @ 250 VAC, 1 Way Bridge for Coil

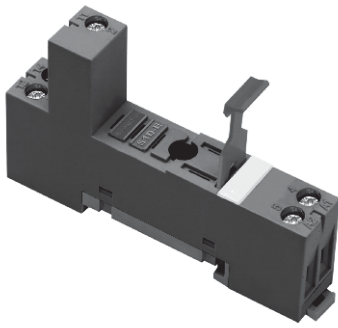


S1D-B4, 10A @ 250 VAC, 4 Way Bridge for Coil

Suitable Relays : P1-A, P1-T-A, P1-A-M, P1-A-E

Approvals





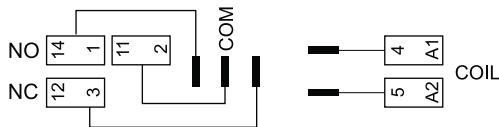
S1D-E

(NON UL)

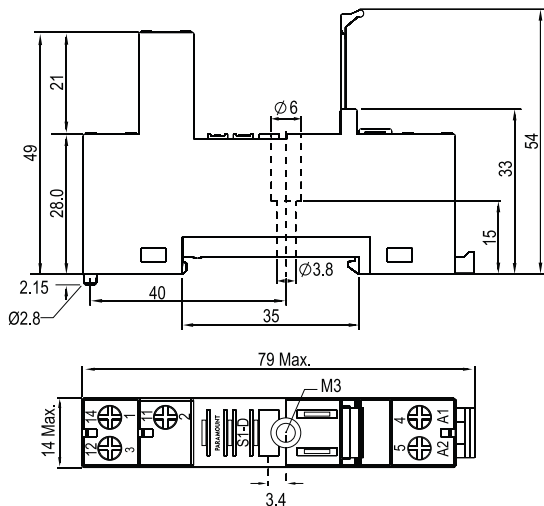
Only
14 mm
WIDE

**Input / Output Socket [10A] for
P1 CO Relays DIN Rail or Panel Mountable**

Wiring Diagram



Dimensions in mm.



Specifications

Poles: 1 Change Over Contact
Nominal load: 10A / 250V

Insulation: Di-electric strength, 1minute
Between contact and coil: 5 KV
Between all terminals and DIN Rail: 5 KV
Between adjacent terminals: 3 KV

Brass Tin Plated Screw
Max. screw torque: 1.2 Nm
Screw dimensions: M3, Pozi

Wire in-lets capacity:
Solid Wire: 4 mm² or 2 x 2.25 mm²
Multi core: 22 14 AWG
Ferrule tip terminals: 4 mm²

Other Aspects

Weight Approx.: 28 gms
DIN Rail / Panel Mountable
Integrated Relay Hold Down Clip
Removable White Marking Label
EN / DIN Sequential Numbering according to EN 60947 & IEC 61810

Accessories

S1D-B1

S1D-B4



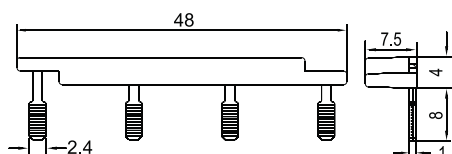
Accessories

Bridge Bar S1D-B1 & S1D-B4 for Coil Terminal (A2 / 5)

Dimensions in mm.



S1D-B1, 10A @ 250 VAC, 1 Way Bridge for Coil

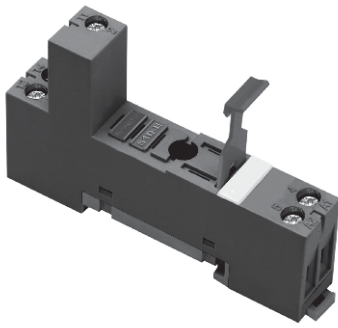


S1D-B4, 10A @ 250 VAC, 4 Way Bridge for Coil

Suitable Relays : P1-E1, P1-E2

Approvals





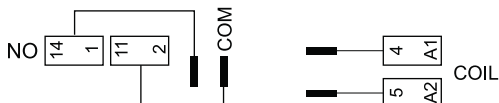
S1D-A-E

(NON UL)

Only
14 mm
WIDE

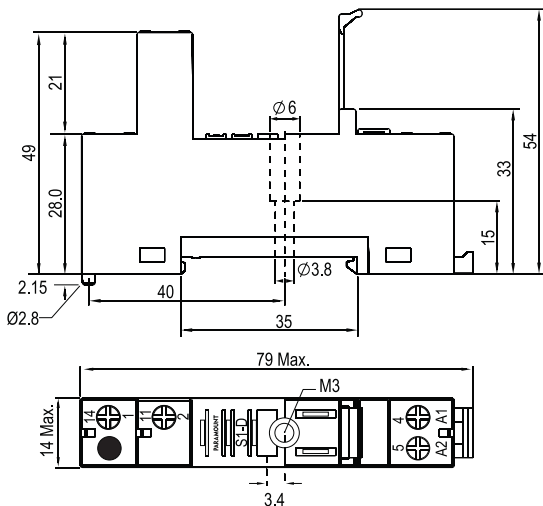
**Input / Output Socket [10A] for
P1 NO Relays DIN Rail or Panel Mountable**

Wiring Diagram



Dimensions

in mm.



Specifications

Poles: 1 Normally Open Contact
Nominal load: 10A / 250V

Insulation: Di-electric strength, 1minute

Between contact and coil: 5 KV
Between all terminals and DIN Rail: 5 KV
Between adjacent terminals: 3 KV

Brass Tin Plated Screw

Max. screw torque: 1.2 Nm
Screw dimensions: M3, Pozi

Wire in-lets capacity:

Solid Wire: 4 mm² or 2 x 2.25 mm²
Multi core: 22 14 AWG
Ferrule tip terminals: 4 mm²

Other Aspects

Weight Approx.: 28 gms
DIN Rail / Panel Mountable
Integrated Relay Hold Down Clip
Removable White Marking Label
EN / DIN Sequential Numbering according to EN 60947 & IEC 61810

Accessories

S1D-B1

S1D-B4



Accessories

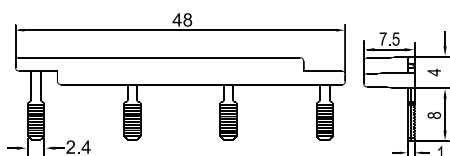
Bridge Bar S1D-B1 & S1D-B4 for Coil Terminal (A2 / 5)

Dimensions

in mm.



S1D-B1, 10A @ 250 VAC, 1 Way Bridge for Coil

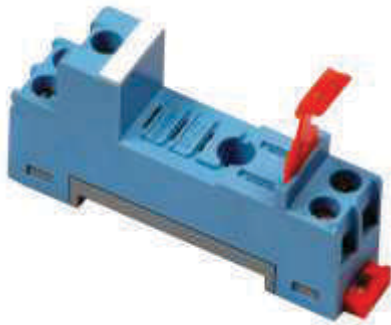


S1D-B4, 10A @ 250 VAC, 4 Way Bridge for Coil

Suitable Relays : P1-A-E1, P1-A-E2

Approvals



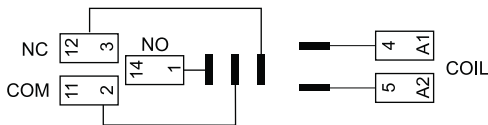


S1LD

Only
15.2 mm
WIDE

**Input / Output Socket [10A] for
P1 CO Relays DIN Rail or Panel Mountable**

Wiring diagram



Specifications

Poles 1 Change Over Contact
Nominal load : 10A / 250V

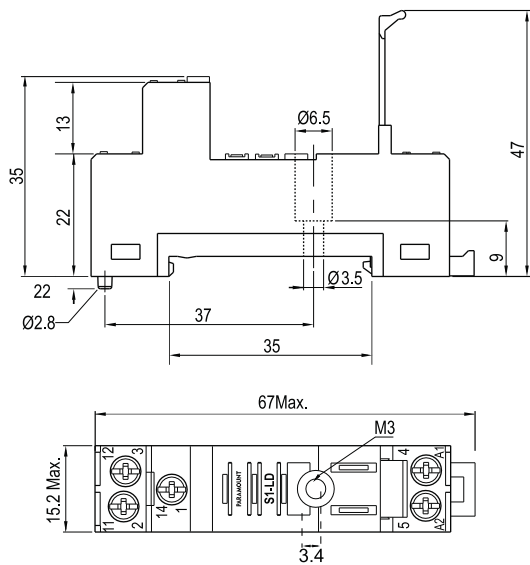
Insulation: Di-electric strength, 1minute

Between contact and coil 5 KV
Between all terminals and DIN Rail 5 KV
Between adjacent terminals 3 KV

Brass Tin Plated Screw

Max. screw torque 1.2 Nm
Screw dimensions M3, Pozi

Dimensions in mm.



Other Aspects

Weight Approx. 24 gms

DIN Rail / Panel Mountable

Integrated Relay Hold Down Clip

Removable White Marking Label

EN / DIN Sequential Numbering according to
EN 60947 & IEC 61810

Accessories



S1LD-B1



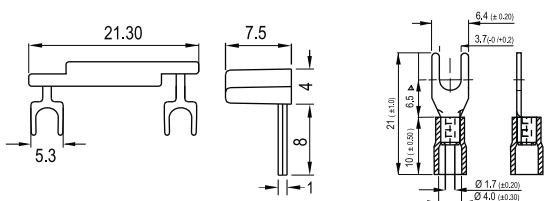
C Terminal

Accessories

S1LD-B1 - 1 Way Bridge

Fork / C - Terminal for wire connection

Dimensions in mm.



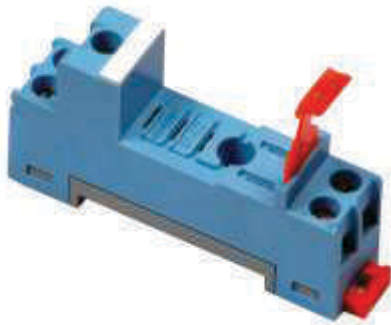
S1LD-B1
1 Way Bridge for Coil

Fork / C type crimped Terminal
used for wire connection

Suitable Relays : P1, P1-T, P1-M, P1-E

Approvals



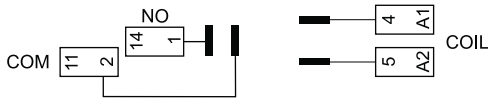


S1LD-A

Only
15.2 mm
WIDE

**Input / Output Socket [10A] for
P1 NO Relays DIN Rail or Panel Mountable**

Wiring diagram



Specifications

Poles: 1 Normally Open Contact
Nominal load : 10A / 250V

Insulation: Di-electric strength, 1minute

Between contact and coil

5 KV

Between all terminals and DIN Rail

5 KV

Between adjacent terminals

3 KV

Brass Tin Plated Screw

Max. screw torque

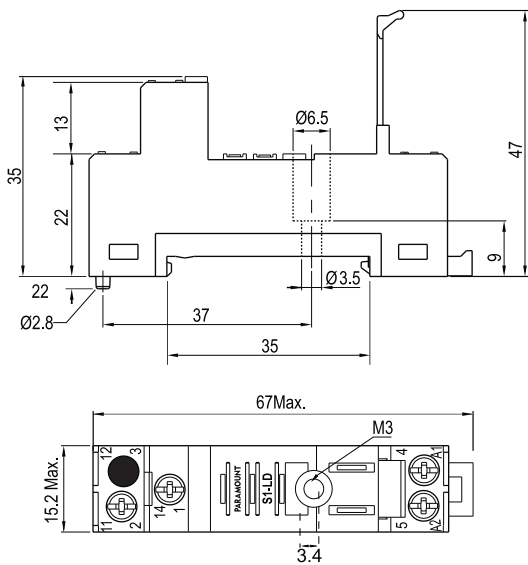
1.2 Nm

Screw dimensions

M3, Pozi

Dimensions

in mm.



Other Aspects

Weight Approx.

24 gms

DIN Rail / Panel Mountable

Integrated Relay Hold Down Clip

Removable White Marking Label

EN / DIN Sequential Numbering according to

EN 60947 & IEC 61810

Accessories



S1LD-B1



C Terminal

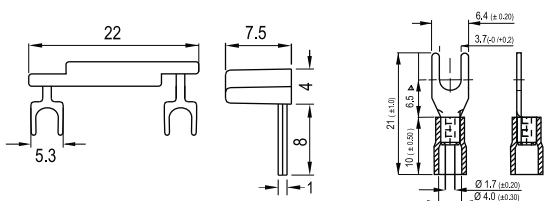
Accessories

S1LD-B1 - 1 Way Bridge

Fork / C - Terminal for wire connection

Dimensions

in mm.



S1LD-B1
1 Way Bridge for Coil

Fork / C type crimped Terminal
used for wire connection

Suitable Relays : P1-A, P1-T-A, P1-A-M, P1-A-E

Approvals





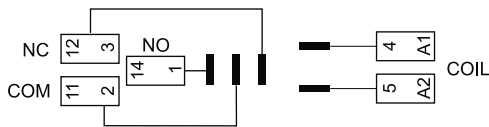
S1LD-E

(NON UL)

Only
15.2 mm
WIDE

Input / Output Socket [10A & 6A] for P1 CO Relays DIN Rail or Panel Mountable

Wiring diagram



Specifications

Poles: 1 Change Over Contact
Nominal load: 10A / 250V

Insulation: Di-electric strength, 1minute

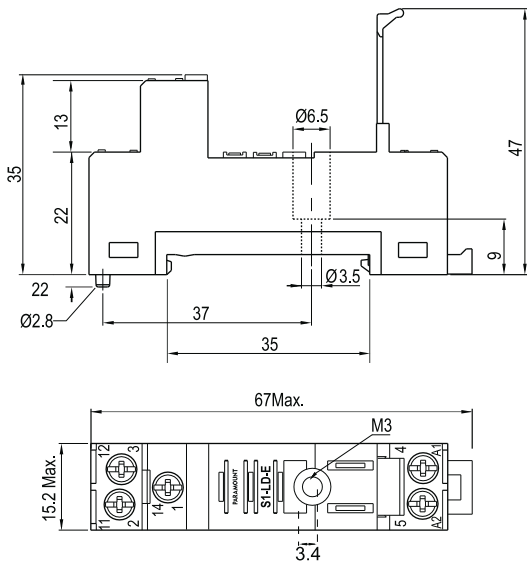
Between contact and coil: 5 KV
Between all terminals and DIN Rail: 5 KV
Between adjacent terminals: 3 KV

Brass Tin Plated Screw

Max. screw torque: 0.6 Nm
Screw dimensions: M3, Pozi

Dimensions

in mm.



Other Aspects

Weight Approx. 24 gms

DIN Rail / Panel Mountable

Integrated Relay Hold Down Clip

Removable White Marking Label

EN / DIN Sequential Numbering according to EN 60947 & IEC 61810

Accessories



S1LD-B1



C Terminal

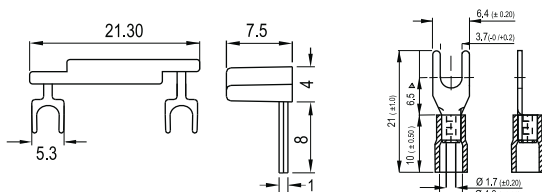
Accessories

S1LD-B1 - 1 Way Bridge

Fork / C - Terminal for wire connection (Only 1No. to be used)

Dimensions

in mm.



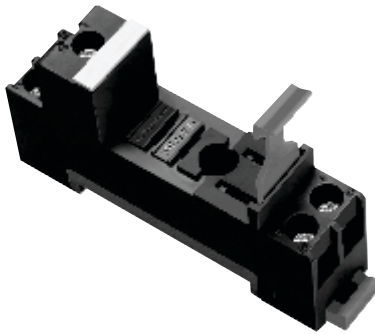
S1LD-B1
1 Way Bridge for Coil

Fork / C type crimped Terminal
used for wire connection

Suitable Relays : P1-E1, P1-E2

Approvals





S1LD-A-E

(NON UL)

Only
15.2 mm
WIDE

Input / Output Socket [10A & 6A] for P1 NO Relays DIN Rail or Panel Mountable

Wiring diagram



Specifications

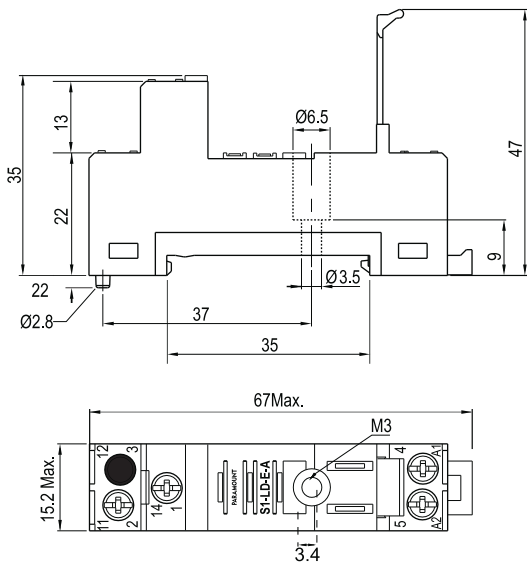
Poles: 1 Normally Open Contact
Nominal load : 10A / 250V

Insulation: Di-electric strength, 1minute
Between contact and coil: 5 KV
Between all terminals and DIN Rail: 5 KV
Between adjacent terminals: 3 KV

Brass Tin Plated Screw
Max. screw torque: 0.6 Nm
Screw dimensions: M3, Pozi

Dimensions

in mm.



Other Aspects

Weight Approx. 24 gms
DIN Rail / Panel Mountable
Integrated Relay Hold Down Clip
Removable White Marking Label
EN / DIN Sequential Numbering according to EN 60947 & IEC 61810

Accessories



S1LD-B1



C Terminal

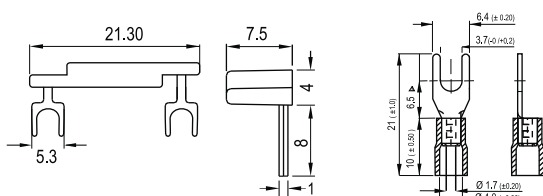
Accessories

S1LD-B1 - 1 Way Bridge

Fork / C - Terminal for wire connection (Only 1No. to be used)

Dimensions

in mm.



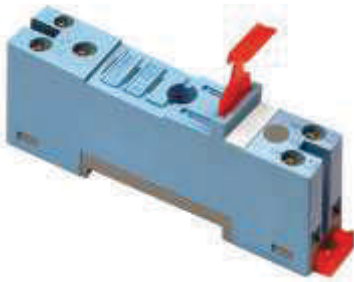
S1LD-B1
1 Way Bridge for Coil

Fork / C type crimped Terminal
used for wire connection

Suitable Relays : P1-A-E1, P1-A-E2

Approvals



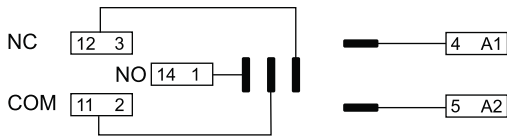


S1HD

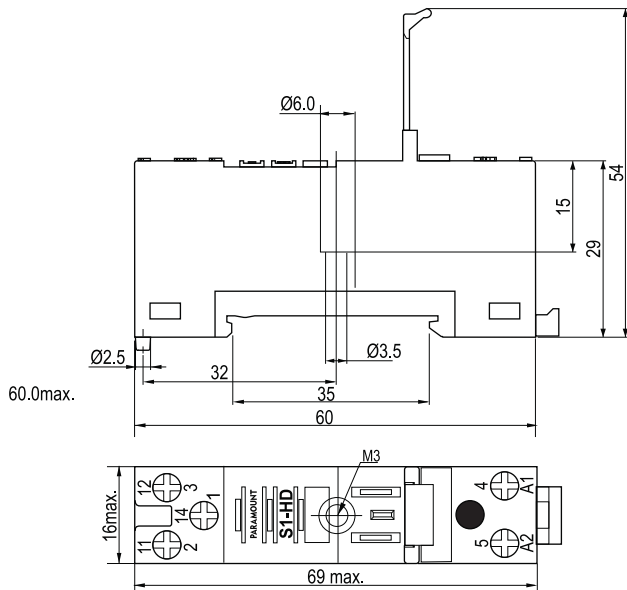
Only
16mm
WIDE

**Input / Output Socket [10A] for
P1 CO Relays DIN Rail or Panel Mountable**

Wiring diagram



Dimensions in mm.



Specifications

Poles	1 Change Over Contact
Nominal load :	10A / 250V
Insulation: Di-electric strength, 1minute	
Between contact and coil	5 KV
Between all terminals and DIN Rail	5 KV
Between adjacent terminals	3 KV
Hard Brass Tin Plated Terminals	
Brass Tin Plated Screw	
Max. screw torque	1.2 Nm
Screw dimensions	M3, Pozi
Wire in-lets capacity:	
Solid Wire	4 mm ² or 2 x 2.25 mm ²
Multi core	22 14 AWG
Ferrule tip terminals	4 mm ²

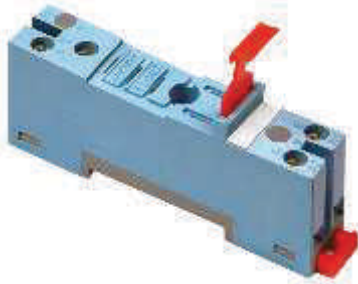
Other Aspects

Weight Approx.	28 gms.
DIN Rail / Panel Mountable	
Integrated Relay Hold Down Clip	
Removable White Marking Label	
EN / DIN Sequential Numbering according to EN 60947 & IEC 61810	

Suitable Relays : P1, P1-T, P1-M, P1-E

Approvals



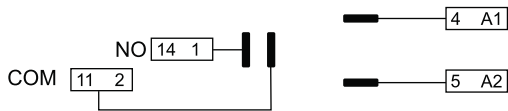


S1HD-A

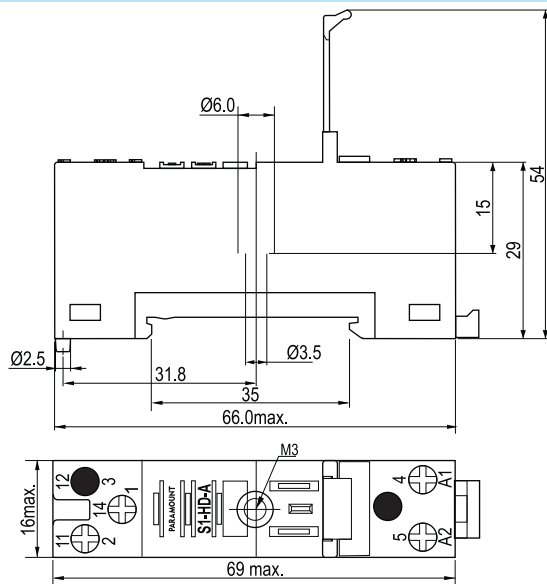
Only
16mm
WIDE

**Input / Output Socket [10A] for
P1 NO Relays DIN Rail or Panel Mountable**

Wiring diagram



Dimensions in mm.



Specifications

Poles	1 Normally Open Contact
Nominal load :	10A / 250V
Insulation: Di-electric strength, 1minute	
Between contact and coil	5 KV
Between all terminals and DIN Rail	5 KV
Between adjacent terminals	3 KV
Hard Brass Tin Plated Terminals	
Brass Tin Plated Screw	
Max. screw torque	1.2 Nm
Screw dimensions	M3, Pozi
Wire in-lets capacity:	
Solid Wire	4 mm ² or 2 x 2.25 mm ²
Multi core	22 14 AWG
Ferrule tip terminals	4 mm ²

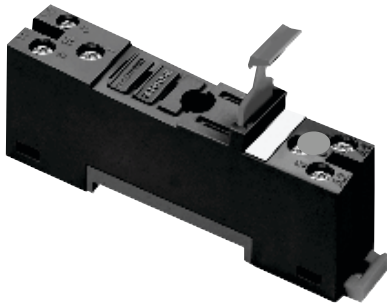
Other Aspects

Weight Approx.	28 gms.
DIN Rail / Panel Mountable	
Integrated Relay Hold Down Clip	
Removable White Marking Label	
EN / DIN Sequential Numbering according to EN 60947 & IEC 61810	

Suitable Relays : P1-A, P1-T-A, P1-A-M, P1-A-E

Approvals





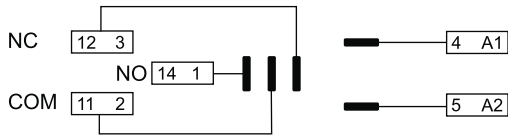
S1HD-E

(NON UL)

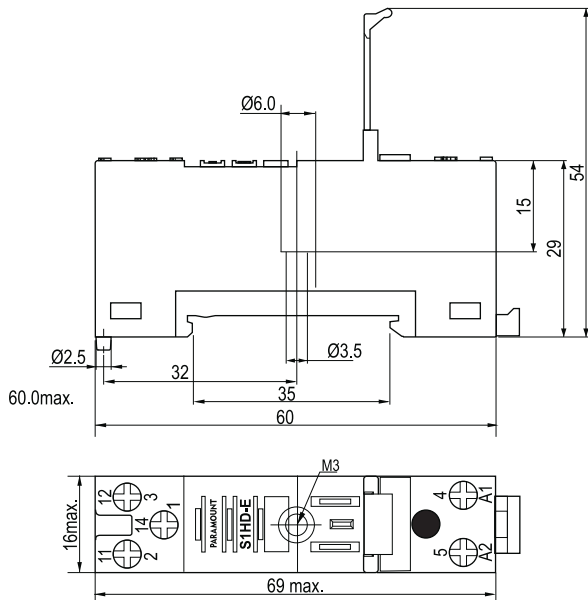
Only
16mm
WIDE

**Input / Output Socket [10A] for
P1 CO Relays DIN Rail or Panel Mountable**

Wiring diagram



Dimensions in mm.



Specifications

Poles	1 Change Over Contact
Nominal load :	10A / 250V
Insulation: Di-electric strength, 1minute	
Between contact and coil	5 KV
Between all terminals and DIN Rail	5 KV
Between adjacent terminals	3 KV
Hard Brass Tin Plated Terminals	
Brass Tin Plated Screw	
Max. screw torque	1.2 Nm
Screw dimensions	M3, Pozi
Wire in-lets capacity:	
Solid Wire	4 mm ² or 2 x 2.25 mm ²
Multi core	22 14 AWG
Ferrule tip terminals	4 mm ²

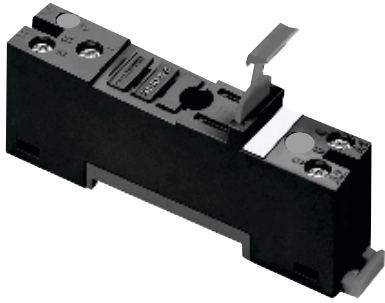
Other Aspects

Weight Approx.	28 gms.
DIN Rail / Panel Mountable	
Integrated Relay Hold Down Clip	
Removable White Marking Label	
EN / DIN Sequential Numbering according to EN 60947 & IEC 61810	

Suitable Relays : P1-E1, P1-E2

Approvals





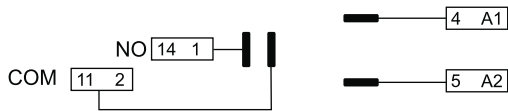
S1HD-A-E

(NON UL)

Only
16mm
WIDE

**Input / Output Socket [10A] for
P1 NO Relays DIN Rail or Panel Mountable**

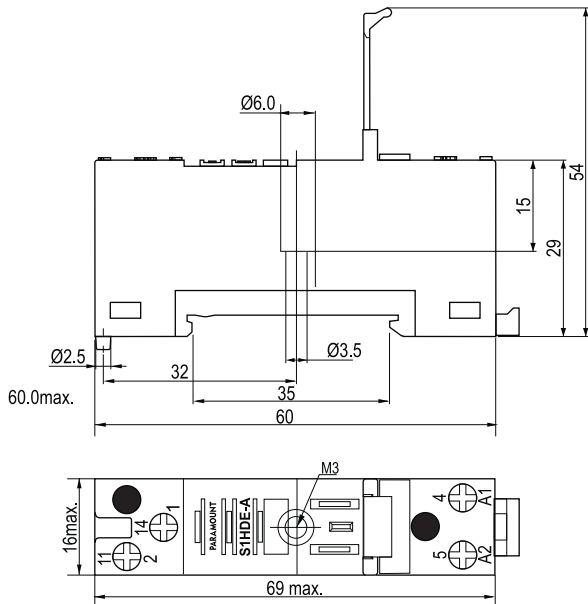
Wiring diagram



Specifications

Poles	1 Change Over Contact
Nominal load :	10A / 250V
Insulation: Di-electric strength, 1minute	
Between contact and coil	5 KV
Between all terminals and DIN Rail	5 KV
Between adjacent terminals	3 KV
Hard Brass Tin Plated Terminals	
Brass Tin Plated Screw	
Max. screw torque	1.2 Nm
Screw dimensions	M3, Pozi
Wire in-lets capacity:	
Solid Wire	4 mm ² or 2 x 2.25 mm ²
Multi core	22 14 AWG
Ferrule tip terminals	4 mm ²

Dimensions in mm.



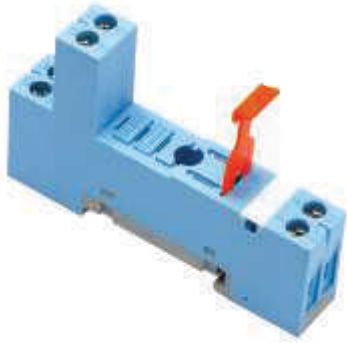
Other Aspects

Weight Approx.	28 gms.
DIN Rail / Panel Mountable	
Integrated Relay Hold Down Clip	
Removable White Marking Label	
EN / DIN Sequential Numbering according to EN 60947 & IEC 61810	

Suitable Relays : P1-A-E1, P1-A-E2

Approvals



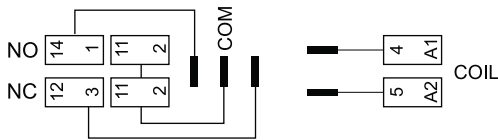


S10 K

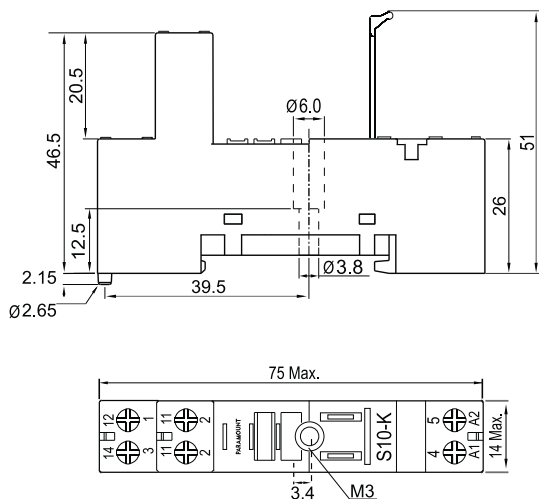
Only
14mm
WIDE

**Input / Output Socket [10A] for
P1 Relays DIN Rail or Panel Mountable**

Wiring diagram



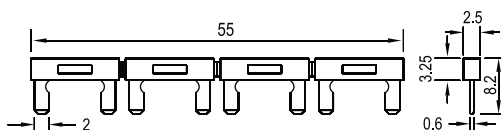
Dimensions in mm.



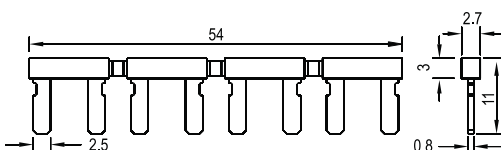
Accessories



Dimensions in mm.



S10K-BB, 10A @ 250 VAC, 4 Way Bridge for Coil



S10K-B1, 10A @ 250 VAC, 4 Way Bridge for Change Over

Note : In the S10K sockets the Change Over Contact Terminals (11/2) can be looped externally with S10K-B4 bridges.

Specifications

Poles	1 Change Over Contact
Nominal load :	10A / 250V
Insulation: Di-electric strength, 1minute	
Between contact and coil	5 KV
Between all terminals and DIN Rail	5 KV
Between adjacent terminals	3 KV
Hard Brass Tin Plated Terminals	
Brass Tin Plated Screw	
Max. screw torque	1.2 Nm
Screw dimensions	M3, Pozi
Wire in-lets capacity:	
Solid Wire	4 mm ² or 2 x 2.25 mm ²
Multi core	22 14 AWG
Ferrule tip terminals	4 mm ²

Other Aspects

Weight Approx.	28 gms.
DIN Rail / Panel Mountable	
Integrated Relay Hold Down Clip	
Removable White Marking Label	
EN / DIN Sequential Numbering according to EN 60947 & IEC 61810	

Accessories

Bridge Bar S10K-BB for Coil Terminal (A2 / 5) &
Bridge Bar S10K-B1 for Change Over Terminal (11/2)

Suitable Relays : P1-P1-T, P1-M, P1-E

Approvals





S1-P

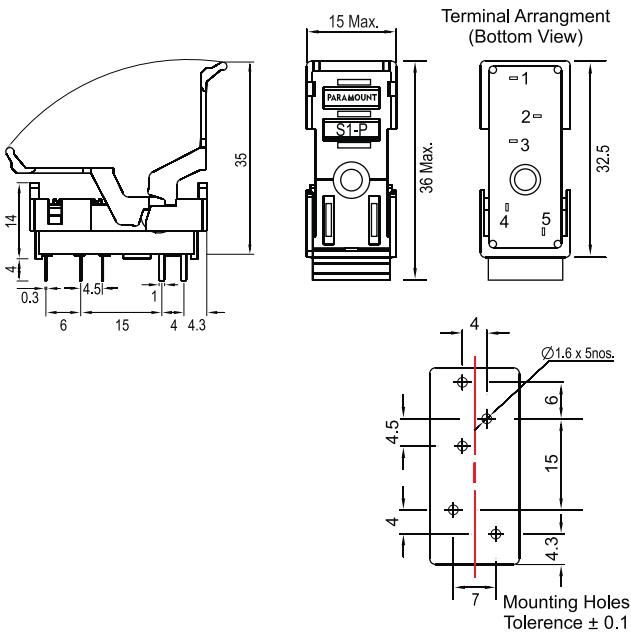
(UL)

Printed Circuit Board Socket for P1 Relays

Specifications

Nominal load	10A / 250 V
Dielectric strength 1 min.	
Coil terminals to contacts	5 KV
Hard brass tin-plated terminals	0.3 x 1mm
Integrated Relay Hold Down Clip	
Weight Approx.	6 gms.

Dimensions in mm.



Approvals



SN1-P

(UL)

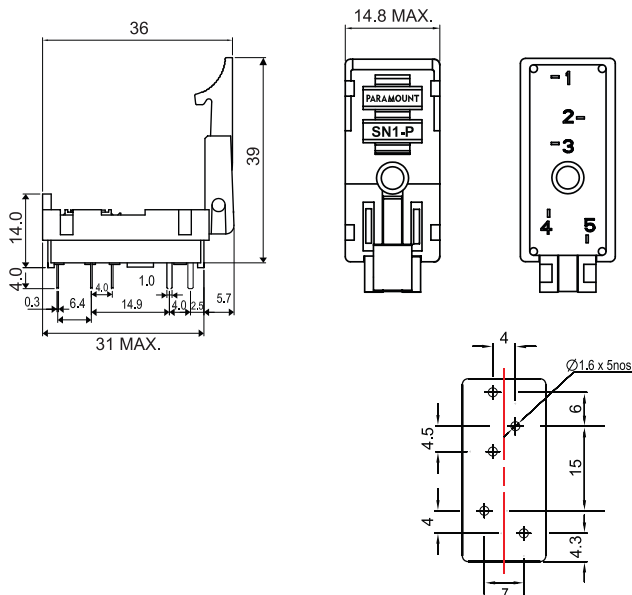
Only
14 mm
WIDE

Printed Circuit Board Socket for P1 Relays

Specifications

Nominal load	10A / 250 V
Dielectric strength 1 min.	
Coil terminals to contacts	5 KV
Hard brass tin-plated terminals	0.3 x 1mm
Integrated Relay Hold Down Clip	
Weight Approx.	6 gms.

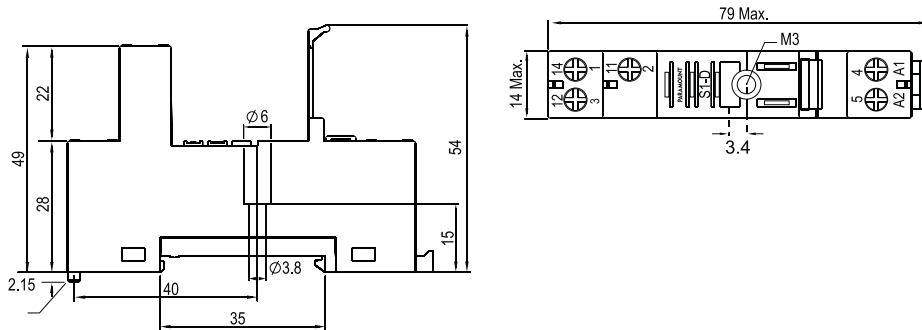
Dimensions in mm.



Approvals



S1D is the World's most compact (14mm width) DIN Rail Mountable Socket for the relays with the below Pitch & Pin configuration



14mm width of the S1D DIN Rail Mountable Socket allows to mount 68 sockets on a Standard 35 mm Din Rail with a length of 1 meter / 1000 mm length (with a provision

Generally the PLC (Programmable Logic Controller) / DCS (Distributed Control System) output is 64 Bit output which requires 64 Relays to drive the load.

All the 64 Relays driven by a particular PLC / DCS can be mounted on a single 35 mm standard 1 Mt / 1000 mm Din Rail along with a provision to mount 4 Spare Relays.

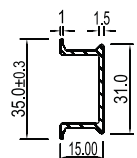
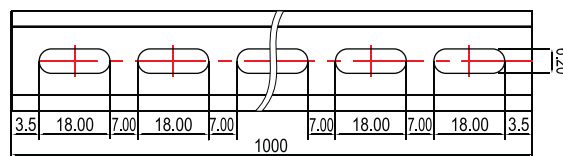
The provision to mount 64 Relays on a single 35 mm Din Rail with 1 mt / 1000 length makes the wiring, identification of the relays from a particular PLC / DCS & maintenance very easy and convenient.

Mounting Tracks

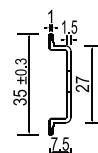
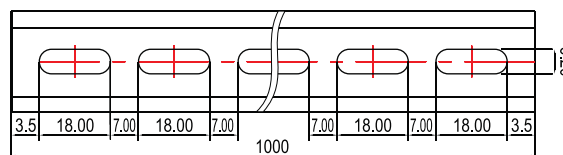
All Dimensions in mm



PDR-15



PDR-7.5



Ordering Information for Relays

P1--------
1 2 3 4 5 6 7 8

1. Relay Type

Blank : Genera Purpose / Standard
T : Twin Contact / Bifurcated Relay

2. Contact Form

Blank : SPDT (1C/O)
A : SPST- NO (1N/O)

3. Contact Type

Blank : No Features / Standard
F : Mechanical Flag Indicator
P : LED Indicator across the coil
Z : Free Wheeling + Polarity Diode
I : Lockable + Manual Push Button
B : Bridge Rectifier
R : RC (Snubber Circuit)

5. Features

Blank : No Features / Standard
M : Magneti Blow Out

6. Contact Material

Blank : AgCuNi
1 : AgCuNi + Au 0.2 micron
2 : AgCuNi + Au 5.0 micron
3 : AgSnO2

7. Contact Material

Blank : UL Approved (10 Amps)
E : UL Approved (6 Amps)
E1 : NON UL Approved (10 Amps)
E2 : NON UL Approved (6 Amps)

8. Rated coil Voltage

6 / 12 / 24 / 48 / 110 VDC
6 / 12 / 24 / 48 / 115 / 230 VAC

Ordering Information for Sockets for P1 Relays

S1D	Din Rail Mountable Socket	(UL Approved)	For General purpose 1 Pole Relays
S1D-A	Din Rail Mountable Socket	(UL Approved)	For General purpose 1 NO Relays
S1LD	Din Rail Mountable Socket	(UL Approved)	For General purpose 1 Pole Relays
S1LD-A	Din Rail Mountable Socket	(UL Approved)	For General purpose 1 NO Relays
S1HD	Din Rail Mountable Socket	(UL Approved)	For General purpose 1 Pole Relays
S1HD-A	Din Rail Mountable Socket	(UL Approved)	For General purpose 1 NO Relays
S1D-E	Din Rail Mountable Socket	(NON UL)	For General purpose 1 Pole Relays
S1D-A-E	Din Rail Mountable Socket	(NON U)	For General purpose 1 NO Relays
S1LD-E	Din Rail Mountable Socket	(NON UL)	For General purpose 1 Pole Relays
S1LD-A-E	Din Rail Mountable Socket	(NON U)	For General purpose 1 NO Relays
S1HD-E	Din Rail Mountable Socket	(NON UL)	For General purpose 1 Pole Relays
S1HD-A-E	Din Rail Mountable Socket	(NON U)	For General purpose 1 NO Relays