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PR2 Relay Base for: - Industrial DPDT or 4PDT Relays

Universal Modular System

The 27 mm*) (1.063 in.) wide PR2 relay base range is a modular system consisting of PR2-B... relay bases, robust REL-IR... electromechanical industrial relays with DPDT and 4PDT contacts, and a comprehensive range of accessories. These include:

- Plug-in input/interference suppression modules
- Relay retaining bracket with labeling field and eject function
- Labels
- Continuous jumpers

Depending on the application, complete coupling relays can be created, which are optimized in terms of cost and function.

Base Versions

The relay bases are available in three versions - the flat 2/2 level PR2-BSC2 type with screw connections, and the "logical" 1/3 level PR2-BSC3 with screw connections and PR2-BSP3 with spring-cage connections. The logical versions have coil and contact connections that are located opposite one another and thus meet the requirements of modern control cabinet concepts with clear isolation of control signals and load

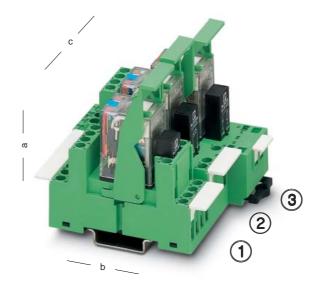
Robust, Cost-Effective Industrial Relays

Industrial relays are used in many sectors of industry due to their robust structure, which has 2.6 mm (0.102 in.) flat pins. The main features of the REL/IR... series include the fully automated manufacture of products in conjunction with the high degree of product stability and global availability. The following versions are available:

- With two 10 A 2PDT contacts
- With four 5 A 4PDT contacts
- In all popular AC and DC coil voltages

Considerably wider and more expensive miniature contactors can thus be replaced cost-effectively in many applications without adversely affecting machine or system operation. All industrial relays have the following standard features:

- Manual test key (AC coil = red key, DC coil = blue key)
- Mechanical switch setting display
- LED status indicators
- Free-wheeling diode (only DC types)
- Power contacts with solid gold coating (only types with 4PDT contacts)
 - *) Spring-cage version is 31 mm (1.220 in.) wide



	1	2	3	
	PR2-BSC2	PR2-BSC3	PR2-BSP3	
Nominal voltage U ¹) Nominal current I ¹)	300 V AC 12 A	300 V AC 12 A	300 V AC 10 A	
Conductor cross section - Solid - Flexible American Wire Gauge	2 x 2.5 mm ² 2 x 2.5 mm ² 2 x 14 AWG	2 x 2.5 mm ² 2 x 2.5 mm ² 2 x 14 AWG	2 x 1.5 mm ² 2 x 1.5 mm ² 2 x 16 AWG	
Connection type	M 3	M 3	3)	
Approvals ²)	⊕ ₹1	⊕ ₹1	⊕ ₹1	
Stripping length	8 mm (0.31 in.)	8 mm (0.31 in.)	12 mm (0.47 in.)	
Height (a) with retaining bracket:				
- EL2-P35 Depth (b)	84 mm (3.307 in.) 75 mm (2.953 in.)	86 mm (3.386 in.) 78.5 mm (3.091 in.)	84 mm (3.307 in.) 95 mm (3.740 in.)	
Width (c)	27 mm (1.063 in.)	27 mm (1.063 in.)	31 mm (1.220 in.)	
Ambient temperature	-25°C+85°C (-13°F +185°F)	-25°C+85°C (-13°F +185°F)	-25°C+85°C (-13°F +185°F)	

¹⁾ The maximum electrical data is relay dependent.

Details on request.

³⁾ Two spring-cage connections per terminal point.

PR2 Relay Base for Industrial DPDT or 4PDT Relays

Description	Туре	Order No.	Pcs. Pkt.
PR2-B relay base, for REL-IR Industrial DPDT or 4PDT Relays, 2/2 level version, screw connections, optional connection of input/interference suppression module, for mounting on ¬¬r, including MP2 markers, 10 pcs. per pack	PR2-BSC2/4x21	28 33 56 3	10
PR2-B relay base, for REL-IR Industrial DPDT or 4PDT Relays, 1/3 level version, screw connections, optional connection of input/interference suppression module, for mounting onr,including MP2 markers, 10 pcs. per pack	PR2-BSC3/4x21	28 33 57 6	10
PR2-B relay base, for REL-IR Industrial DPDT or 4PDT Relays, 1/3 level version, spring-cage connections, optional connection of input/interference suppression module, for mounting onr, including MP1 markers, 10 pcs. per pack	PR2-BSP3/4x21	28 33 58 9	10
Relay retaining bracket, with eject function and integrated device marking area (8 x 25 mm [0.315 x 0.984 in.]), suitable for PR2 relay base: - For 35 mm (1.378 in.) high industrial relays	EL2-P35	28 33 59 2	10
Device marker: - Suitable for PR2-BSP, 6 x 15 mm (0.236 x 0.591 in.) marking area - Suitable for PR2-BSC, 9 x 25 mm (0.354 x 0.984 in.) marking area	MP1 MP2	28 33 63 1 28 33 64 4	10
Plug-in module, for mounting on PR1 and PR2, with free-wheeling diode and yellow LED, polarity: A1 +, A2 – Input voltage: - 12 - 24 V DC ±20% - 48 - 60 V DC ±20% - 110 V DC ±20%	LDP-12-24DC ¹) LDP-48-60DC ¹) LDP-110DC ¹)	28 33 65 7 28 33 66 0 28 33 67 3	10 10 10
Plug-in module, for mounting on PR1 and PR2, with free-wheeling diode and yellow LED, polarity: A1 -, A2 + (Japanese standard) Input voltage: -12 - 24 V DC ±20% -48 - 60 V DC ±20% -110 V DC ±20%	LDM-12-24DC ¹) LDM-48-60DC ¹) LDM-110DC ¹)	28 33 68 6 28 33 69 9 28 33 70 9	10 10 10
Plug-in module, for mounting on PR1 and PR2, with varistor and yellow LED, input voltage: - 12 - 24 V AC/DC ±20% - 48 - 60 V AC/DC ±20% - 120 - 230 V AC/110 V DC ±20%	LV-12-24UC (30 V varistor) LV-48-60UC (75 V varistor) LV-120-230AC/110 DC (275 V varistor)	28 33 71 2 28 33 72 5 28 33 73 8	10 10 10
Plug-in module, for mounting on PR1 and PR2, with varistor Input voltage: - 12 - 24 V AC/DC ±20% - 48 - 60 V AC/DC ±20% - 120 - 230 V AC/DC ±20%	V-12-24UC (30 V varistor) V-48-60UC (75 V varistor) V-120-230UC (275 V varistor)	28 33 86 4 28 33 87 7 28 33 88 0	10 10 10
Plug-in module, for mounting on PR1 and PR2, with RC element Input voltage: - 12 - 24 V AC/DC ±20% - 48 - 60 V AC/DC ±20% - 120 - 230 V AC/DC ±20%	RC-12-24UC (220 nF/100 Ω) RC-48-60UC (220 nF/220 Ω) RC-120-230UC (100 nF/470 Ω)	28 33 74 1 28 33 75 4 28 33 76 7	10 10 10
Wire jumper, 50-pos., can be separated, maximum jumpering distance of 60 mm (2.36 in.), 0.5 mm ² (20 AWG), insulation: — Blue — Black — Gray	DB 50-90 BU DB 50-90 BK DB 50-90 GY	28 21 18 0 28 20 91 6 28 20 92 9	1 1 1

Might not be required, as LED and freewheeling diode are already integrated in the REL-IR/LD... relays.

Plug-In Industrial Relays With DPDT Contacts, Suitable for PR2 Relay Base

Description		Туре		Order No.	Pcs Pkt.
Plug-in industrial relays ¹) with power contacts, DPDT contacts, test key, status LED, free-wheeling diode, mechanical switch setting display, polarity: A1 +, A2 – Coil voltage: - 12 V DC - 24 V DC - 48 V DC - 110 V DC Plug-in industrial relays ¹) with power contacts, DPDT contacts, test key, status LED, free-wheeling diode, mechanical	A2 11 11 12 112	REL-IR/LDP-12DC/2x21 REL-IR/LDP-24DC/2x21 REL-IR/LDP-48DC/2x21 REL-IR/LDP-110DC/2x21		28 34 01 2 28 34 02 5 28 34 03 8 28 34 04 1	10 10 10 10
switch setting display, polarity: A1 –, A2 + (Japanese standard) Coil voltage: 12 V DC 24 V DC 48 V DC 110 V DC Plug-in industrial relays ¹) with power contacts, DPDT contacts, test key, status LED, mechanical switch setting display Coil voltage: 24 V AC 120 V AC 230 V AC	Representation without LED and free-wheeling diode. Contacts 21, 22, and 24 are led to relay base connections 41, 42, and 44.	REL-IR/LDM-12DC/2x21 REL-IR/LDM-24DC/2x21 REL-IR/LDM-48DC/2x21 REL-IR/LDM-110DC/2x21 REL-IR/L-24AC/2x21 REL-IR/L-120AC/2x21 REL-IR/L-230AC/2x21		28 34 15 1 28 34 16 4 28 34 17 7 28 34 18 0 28 34 05 4 28 34 05 4 28 34 07 0	10 10 10 10 10
Fechnical Data					
Coil Side DC Coils Nominal input voltage U _N Permissible range (with reference to U _N) Typical input current at U _N Typical response time at U _N Typical release time at U _N DC coil resistance at 20°C (68°F) Coil Side AC Coils (50 Hz/60 Hz)		12 V DC 24 V DC See diagram on page 5 75 mA 38 mA 13 ms 13 ms 5 ms 5 ms $160 \Omega \pm 15\%$ $630 \Omega \pm 15\%$	48 V DC 19 mA 13 ms 5 ms 2560 Ω ±15%	110 V DC 10 mA 13 ms 5 ms 11100 Ω ±1	5%
Nominal input voltage U_{N} Permissible range (with reference to U_{N}) Typical input current at U_{N} (50 Hz/60 Hz) Typical response time at U_{N} (depending on platify release time at U_{N} (depending on phatic coil resistance at 20°C (68°F)		$\begin{array}{cccc} 24 \text{ V AC} & 120 \text{ V AC} \\ \text{See diagram on page 5} \\ 54 \text{ mA/46 mA} & 11 \text{ mA/9 mA} \\ 4 - 10 \text{ ms} & 4 - 10 \text{ ms} \\ 3 - 12 \text{ ms} & 3 - 12 \text{ ms} \\ 180 \ \Omega \pm 15\% & 4430 \ \Omega \pm 15\% \end{array}$	230 V AC 5 mA/4 mA 4 - 10 ms 3 - 12 ms 18790 Ω ±15%		
Contact Side Contact type Contact material Maximum switching voltage Minimum switching voltage Limiting continuous current Maximum inrush current Minimum switching current Maximum shutdown power (ohmic load) Minimum switching power	250 V AC	REL-IR2x21 Single contact, 2 PDT contact Ag 250 V AC/125 V DC 5 V 10 A 20 A (15 ms) 1 mA 2500 VA For additional data, see diagr 5 mW			

General Data

Winding/contact Test voltage:

Contact/contact

Ambient temperature Nominal operating mode Mechanical service life Electrical service life Standards/specifications

Approvals

Mounting position/mounting

2 kV, 50 Hz, 1 minute 2 kV, 50 Hz, 1 minute -55°C to +70°C (-67°F to +158°F) 100% ED 5 x 10⁷ cycles See diagram on page 5 IEC 60 664/IEC 60 664 A/DIN VDE 0110, degree of pollution 2. Surge Voltage Cater degree of pollution 2, Surge Voltage Category II UL; CSA; VDE Any/can be mounted without spacing

¹⁾Further voltage versions, lockable test key, etc. on request.

Plug-In Industrial Relays With 4PDT Contacts, Suitable for PR2 Relay Base

Description		Туре			Order No.	Pcs Pkt.
Plug-in industrial relays ¹) with power contacts and solid gold coating, 4PDT contacts, test key, status LED, free-wheeling diode, mechanical switch setting display, polarity: A1 +, A2 – Coil voltage: 12 V DC 24 V DC 48 V DC 110 V DC Plug-in industrial relays ¹) with power contacts and solid gold coating, 4PDT contacts, test key, status LED, free-wheeling diode, mechanical switch setting display, polarity: A1 –, A2 + (Japanese	Representation without LED and free-wheeling diode.	REL-IR/LDP-1 REL-IR/LDP-2 REL-IR/LDP-4 REL-IR/LDP-1	24DC/4x21AU		28 34 08 3 28 34 09 6 28 34 10 6 28 34 11 9	10 10 10 10
standard) Coil voltage: - 12 V DC - 24 V DC - 48 V DC - 110 V DC	aloge.	REL-IR/LDM-	12DC/4x21AU 24DC/4x21AU 48DC/4x21AU 110DC/4x21AU		28 34 19 3 28 34 20 3 28 34 21 6 28 34 22 9	10 10 10 10
Plug-in industrial relays ¹) with power contacts and solid gold coating, 4PDT contacts, test key, status LED, mechanical switch setting display Coil voltage: - 24 V AC - 120 V AC - 230 V AC		REL-IR/L-24A REL-IR/L-120 REL-IR/L-230	AC/4x21AU		28 34 12 2 28 34 13 5 28 34 14 8	10 10 10
Technical Data						
Coil Side DC Coils Nominal input voltage U _N Permissible range (with reference to U _N) Typical input current at U _N Typical response time at U _N Typical release time at U _N DC coil resistance at 20°C (68°F)		12 V DC See diagram of 75 mA 13 ms 5 ms 160 Ω ±15%	24 V DC on page 5 38 mA 13 ms 5 ms 630 Ω ±15%	48 V DC 19 mA 13 ms 5 ms 2560 Ω ±15%	110 V DC 10 mA 13 ms 5 ms 11100 Ω ±1	5%
Coil Side AC Coils (50 Hz/60 Hz) Nominal input voltage U _N Permissible range (with reference to U _N) Typical input current at U _N (50 Hz/60 Hz) Typical response time at U _N (depending on ph	nase relation)	24 V AC See diagram of 54 mA/46 mA 4 - 10 ms	120 V AC on page 5 11 mA/9 mA 4 - 10 ms	230 V AC 5 mA/4 mA 4 - 10 ms		

Typical response time at U_N (depending on phase relation) Typical release time at U_N (depending on phase relation) DC coil resistance at 20°C (68°F)

Contact Side

Contact type Contact material

Maximum switching voltage

Minimum switching voltage

Limiting continuous current

Maximum inrush current Minimum switching current Maximum shutdown power (ohmic load)

Minimum switching power

General Data

Winding/contact Test voltage:

Contact/contact

Ambient temperature Nominal operating mode Mechanical service life Electrical service life Standards/specifications

Approvals

Mounting position/mounting

250 V AC

3 - 12 ms

180 Ω ±15%

AgNi + 3 μ Au

12 A (15 ms) 1 mA

1250 VA

1 V

5 A

REL-IR...4x21AU

250 V AC/125 V DC

2 kV, 50 Hz, 1 minute 2 kV, 50 Hz, 1 minute

3 - 12 ms

Single contact, 4 PDT contacts

4430 Ω ±15%

For additional data, see diagram on page 5

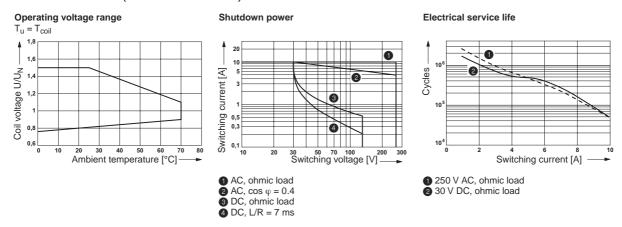
3 - 12 ms

18790 Ω ±15%

¹⁾Further voltage versions, lockable test key, etc. on request.

Diagrams for REL-IR... Industrial Relays

REL-IR...2x21 (DPDT Contacts)



REL-IR...4x21AU (4PDT Contacts)

