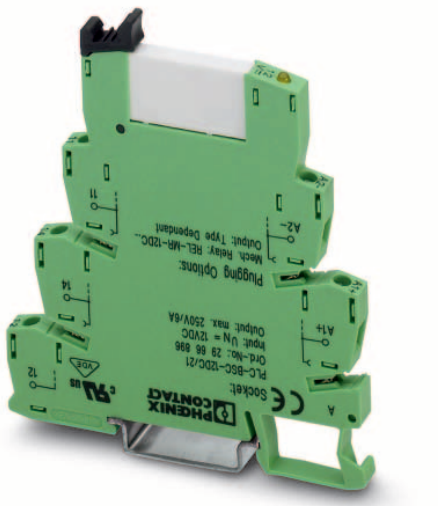
PLC-RS…/21

PLC INTERFACE With PDT Relay, Universal Version

INTERFACE

Data Sheet
101780_en_02



1 Description

PLC-RS…/21 relay modules, which can be used universally, comprise 6.2 mm basic terminal blocks and plug-in miniature relays with PDT contact and screw or spring-cage connection.

1.1 PDT Offers a High Degree of Flexibility

The PLC-RS…/21 universal PDT module is used whenever an application requires a high degree of flexibility. It can be used either as an input or output module or in N/O, N/C or PDT contact applications.

This offers the advantage of fewer ordering and warehousing items. PLC INTERFACE modules are supplied fully equipped with a relay as standard.

1.2 Input Voltages From 12 V to 230 V

PLC-RS…/21 is available on the coil side in all common industrial voltages from 12 V to 230 V. A further advantage is the ready-integrated input circuit. It consists of a status indicator as well as free-wheeling diode and polarity reversal protection function, and ensures that the operating state is displayed clearly, also offering reliable EMI suppression for the coils and preventing destruction should the polarity be accidentally reversed.

1.3 Optimum Use of Plug-In Bridges

The PLC INTERFACE module achieves maximum efficiency with the user-friendly FBST plug-in bridge system. The PLC-RS…/21 makes effective use of the bridging options for the A1/A2 connection on the coil side and for the grouped power supply at connection 11 on the contact side. Especially effective here are the 500 mm long color-insulated continuous plug-in bridges that can easily be cut to the required length and quickly inserted in the bridge shafts. They eliminate the need for complicated and time-consuming loop bridges.

1.4 Additional Advantages

- Operational safety with RT III (IP67)-protected mechanics
- Environmentally friendly, cadmium-free power contact material for loads up to 250 V AC/6 A
- Available with gold coating for low power levels (mA) as an option
- Integrated input circuit
- Relay can be replaced using an engagement lever
- Safe isolation according to DIN EN 50178
- Inflammability class V0 according to UL94

Make sure you always use the latest documentation.
It can be downloaded at www.download.phoenixcontact.com.

A conversion table is available on the Internet at
www.download.phoenixcontact.com/general/7000_en_00.pdf.

This data sheet is valid for all products listed on the following page:

2 Ordering Data

PLC INTERFACE With Screw Connection

Description		Type	Order No.	Pcs./Pck.
PLC INTERFACE With Multi-Layer Contact Relay, Universal Version				
PLC INTERFACE, comprising PLC-BSC.../21 basic terminal block and plug-in miniature relay (see INTERFACE catalog), for mounting on ⊓	12 V DC	PLCRSC- 12DC/21AU	2966919	10
	24 V DC	PLCRSC- 24DC/21AU	2966265	10
	24 V AC/DC	PLCRSC- 24UC/21AU	2966278	10
	48 V DC	PLCRSC- 48DC/21AU	2966126	10
	60 V DC	PLCRSC- 60DC/21AU	2966142	10
	120 V AC/110 V DC	PLCRSC-120UC/21AU	2966281	10
	230 V AC/220 V DC[1]	PLCRSC-230UC/21AU	2966294	10
PLC INTERFACE With Power Contact Relay, Universal Version				
PLC INTERFACE, comprising PLC-BSC.../21 basic terminal block and plug-in miniature relay (see INTERFACE catalog), for mounting on ⊓	12 V DC	PLCRSC- 12DC/21	2966906	10
	24 V DC	PLCRSC- 24DC/21	2966171	10
	24 V AC/DC	PLCRSC- 24UC/21	2966184	10
	48 V DC	PLCRSC- 48DC/21	2966113	10
	60 V DC	PLCRSC- 60DC/21	2966139	10
	120 V AC/110 V DC	PLCRSC-120UC/21	2966197	10
	230 V AC/220 V DC[1]	PLCRSC-230UC/21	2966207	10

[1] The PLC-ATP BK insulating plate must be installed for voltages greater than 250 V (L1, L2, L3) between the same terminal points on adjacent modules (see "Accessories"). FBST 8-PLC... or FBST 500... is then used for potential bridging.

PLC INTERFACE With Spring-Cage Connection

Description		Type	Order No.	Pcs./Pck.
PLC INTERFACE With Multi-Layer Contact Relay, Universal Version				
PLC INTERFACE, comprising PLC-BSC.../21 basic terminal block and plug-in miniature relay (see INTERFACE catalog), for mounting on ⊓	12 V DC	PLCRSP- 12DC/21AU	2967442	10
	24 V DC	PLCRSP- 24DC/21AU	2966540	10
	24 V AC/DC	PLCRSP- 24UC/21AU	2966553	10
	48 V DC	PLCRSP- 48DC/21AU	2966566	10
	60 V DC	PLCRSP- 60DC/21AU	2966579	10
	120 V AC/110 V DC	PLCRSP-120UC/21AU	2966582	10
	230 V AC/220 V DC[1]	PLCRSP-230UC/21AU	2966647	10
PLC INTERFACE With Power Contact Relay, Universal Version				
PLC INTERFACE, comprising PLC-BSC.../21 basic terminal block and plug-in miniature relay (see INTERFACE catalog), for mounting on ⊓	12 V DC	PLCRSP- 12DC/21	2967439	10
	24 V DC	PLCRSP- 24DC/21	2966472	10
	24 V AC/DC	PLCRSP- 24UC/21	2966485	10
	48 V DC	PLCRSP- 48DC/21	2966498	10
	60 V DC	PLCRSP- 60DC/21	2966511	10
	120 V AC/110 V DC	PLCRSP-120UC/21	2966524	10
	230 V AC/220 V DC[1]	PLCRSP-230UC/21	2966537	10

[1] The PLC-ATP BK insulating plate must be installed for voltages greater than 250 V (L1, L2, L3) between the same terminal points on adjacent modules (see "Accessories"). FBST 8-PLC... or FBST 500... is then used for potential bridging.

With the 120 V and 230 V modules, an REL-MR-60DC/... 60 V relay is normally used due to the input circuit integrated in the basic terminal block.
For the protection of input and output, inductive loads must be dampened with an effective protective circuit.