



Automatización Eléctrica
Especialistas en Automatización

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Relay modules

PLC series

PLC sensor series for input functions

PLC sensor series for coupling controller and sensors, such as proximity switches, limit switches or auxiliary contacts

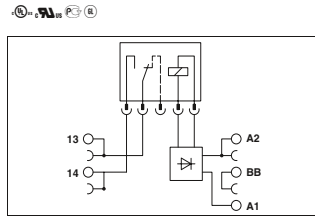
The advantages:

- Direct connection of sensor to relay module
- No need for additional modular terminal blocks
- Space savings of up to 80%
- Time savings of up to 60%
- Screw, spring-cage, and push-in technology
- Relay modules with safe isolation according to DIN EN 50178 between coil and contact
- Functional plug-in bridges
- Efficient connection to system cabling using V8 adapter

Notes:
Type of housing: Polyamide PA non-reinforced, color: green.
Marking systems and mounting material See Catalog 5
Separating plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or FBST 500...
If the specified maximum values for multi-layer contact relays are exceeded, the gold plating is destroyed. The maximum values of the power contact relay are then valid. This can result in a shorter service life than with a pure power contact.
For diagrams of operating voltage ranges, see page 343
1) 120 and 230 V types up to 55°C
2) EMC: Class A product, see page 571



Relay module
1 N/O contact



Technical data

Input data	①	②	③
Permissible range (with reference to U_N)	See diagram		
Switching level (with reference to U_N)	1 signal ("H")	0 signal ("L")	
Typ. input current at U_N	[mA]	9	3.5 3.2
Typ. response time/switch-on time at U_N	[ms]	5	6 7
Typ. release time/switch-off time at U_N	[ms]	8	15 15
Transmission frequency f_{max}	[Hz]		
Input circuit DC	Yellow LED, Protection against polarity reversal, freewheeling diode		
Input circuit AC/DC	Yellow LED, Bridge rectifier		
Output data			
Contact material	AgSnO, hard gold-plated		
Max. switching voltage	30 V AC / 36 V DC		
Min. switching voltage	100 mV (at 10 mA)		
Limiting continuous current	50 mA		
Max. inrush current	50 mA		
Min. switching current	1 mA (at 24 V)		
Output protection	-		
Voltage drop at max. limiting continuous current	-		
General data			
Test voltage input/output	4 kV AC (50 Hz, 1 min.)		
Ambient temperature (operation)	-40°C ... 60°C		
Mechanical service life	2 x 10 ⁷ cycles		
Standards/regulations	IEC 60664, EN 50178, IEC 62103		
Pollution degree/surge voltage category	3 / III		
Connection data solid / stranded / AWG	0.14 - 2.5 mm ² / 0.14 - 2.5 mm ² / 26 - 14		
Dimensions	W / H / D 6.2 mm / 80 mm / 94 mm		

Ordering data

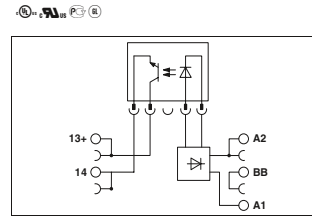
Description	Input voltage U_N	Type	Order No.	Pcs. / Pkt.
PLC INTERFACE, with screw connection	① 24 V DC	PLC-RSC-24DC/ 1AU/SEN ²	2966317	10
	② 120 V AC (110 V DC)	PLC-RSC-120UC/ 1AU/SEN ²	2966320	10
	③ 230 V AC (220 V DC)	PLC-RSC-230UC/ 1AU/SEN ²	2966333	10
PLC INTERFACE, with spring-cage connection	① 24 V DC	PLC-RSP-24DC/ 1AU/SEN ²	2967374	10
	② 120 V AC (110 V DC)	PLC-RSP-120UC/ 1AU/SEN ²	2967390	10
	③ 230 V AC (220 V DC)	PLC-RSP-230UC/ 1AU/SEN ²	2967413	10
PLC-INTERFACE, with push-in connection	① 24 V DC	PLC-RPT-24DC/ 1AU/SEN ²	2900313	10
	② 120 V AC (110 V DC)	PLC-RPT-120UC/ 1AU/SEN ²	2900314	10
	③ 230 V AC (220 V DC)	PLC-RPT-230UC/ 1AU/SEN ²	2900315	10

Relay modules

PLC series



Max. DC voltage output of 100 mA



Technical data

Input data	①	②	③
Permissible range (with reference to U_N)	0.8 - 1.2	0.8 - 1.1	0.8 - 1.1
Switching level (with reference to U_N)	≥ 0.8	≥ 0.8	≥ 0.8
Typ. input current at U_N	≤ 0.4	≤ 0.3	≤ 0.3
Typ. response time/switch-on time at U_N	8.5	3.5	3.5
Typ. release time/switch-off time at U_N	0.02	6	3
Transmission frequency f_{max}	0.3	10	5
Input circuit DC	300	10	10
Input circuit AC/DC	Yellow LED, Protection against polarity reversal, freewheeling diode		
Output data	Yellow LED, Bridge rectifier		
Contact material	-		
Max. switching voltage	48 V DC		
Min. switching voltage	3 V DC		
Limiting continuous current	100 mA		
Max. inrush current	-		
Min. switching current	-		
Output protection	Protection against polarity reversal, Surge protection		
Voltage drop at max. limiting continuous current	≤ 1 V		
General data			
Test voltage input/output	2.5 kV (50 Hz, 1 min.)		
Ambient temperature (operation)	-25°C ... 60°C		
Mechanical service life	-		
Standards/regulations	IEC 60664, EN 50178, IEC 62103		
Pollution degree/surge voltage category	2 / III		
Connection data solid / stranded / AWG	0.14 - 2.5 mm ² / 0.14 - 2.5 mm ² / 26 - 14		
Dimensions	6.2 mm / 80 mm / 94 mm		

Ordering data

Description	Input voltage U_N	Type	Order No.	Pcs. / Pkt.
PLC INTERFACE, with screw connection	① 24 V DC	PLC-OSC-24DC/ 48DC/100/SEN ²	2966773	10
	② 120 V AC (110 V DC)	PLC-OSC-120UC/ 48DC/100/SEN ²	2966799	10
	③ 230 V AC (220 V DC)	PLC-OSC-230UC/ 48DC/100/SEN ²	2966809	10
PLC INTERFACE, with spring-cage connection	① 24 V DC	PLC-OSP-24DC/ 48DC/100/SEN ²	2967578	10
	② 120 V AC (110 V DC)	PLC-OSP-120UC/ 48DC/100/SEN ²	2967581	10
	③ 230 V AC (220 V DC)	PLC-OSP-230UC/ 48DC/100/SEN ²	2967594	10
PLC-INTERFACE, with push-in connection	① 24 V DC	PLC-OPT-24DC/ 48DC/100/SEN ²	2900358	10
	② 120 V AC (110 V DC)	PLC-OPT-120UC/ 48DC/100/SEN ²	2900359	10
	③ 230 V AC (220 V DC)	PLC-OPT-230UC/ 48DC/100/SEN ²	2900361	10

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To access the product, [click on the green button.](#)

Product	Code	Reference	Product link
PLC sensor relay, consisting of base terminal block PLC-BSP...SEN with spring-cage connection and pluggable miniature relay with multi-layer contact, for assembly on DIN rail NS 35/7.5, 1 N/O contact, input voltage 24 V DC	2967374	PLC-RSP- 24DC/ 1AU/SEN	Buy on EAN
PLC sensor relay, consisting of base terminal block PLC-BSP...SEN with spring-cage connection and pluggable miniature relay with multi-layer contact, for assembly on DIN rail NS 35/7.5, 1 N/O contact, input voltage 120 V AC/ 110 V DC	2967390	PLC- RSP-120UC/ 1AU/SEN	Buy on EAN
PLC sensor relay, consisting of base terminal block PLC-BSP...SEN with spring-cage connection and pluggable miniature relay with multi-layer contact, for assembly on DIN rail NS 35/7.5, 1 N/O contact, input voltage 230 V AC/ 220 V DC	2967413	PLC- RSP-230UC/ 1AU/SEN	Buy on EAN
PLC sensor interface, consisting of PLC-BSP...SEN basic terminal block with spring-cage connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input: 24 V DC, output: 3 - 48 V DC/100 mA	2967578	PLC-OSP- 24DC/ 48DC/100/SEN	Buy on EAN
PLC sensor interface, consisting of PLC-BSP...SEN basic terminal block with spring-cage connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input: 120 V AC/110 V DC, output: 3 - 48 V DC/100 mA	2967581	PLC- OSP-120UC/ 48DC/100/SEN	Buy on EAN
PLC sensor interface, consisting of PLC-BSP...SEN basic terminal block with spring-cage connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input: 230 V AC/220 V DC, output: 3 - 48 V DC/100 mA	2967594	PLC- OSP-230UC/ 48DC/100/SEN	Buy on EAN