

# Relay Module - PLC-RPT- 24UC/21-21AU - 2900339

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PLC-INTERFACE, consisting of PLC-BPT.../21-21 basic terminal block with push-in connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 2 PDTs, input voltage 24 V AC/DC

The figure shows a version with a screw connection

## Your advantages

- Slim design
- Efficient connection to system cabling using V8 adapter
- Safe isolation according to DIN EN 50178 between coil and contact
- RT III sealed relay
- Functional plug-in bridges
- Integrated input circuit and interference suppression circuit



## Key commercial data

package_quantity	10
GTIN	4046356507363

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Width	14 mm
Height	80 mm
Depth	94 mm

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

### Coil side

Nominal input voltage $U_N$	24 V AC/DC
Typical input current at $U_N$	17.5 mA
Typical response time	8 ms

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## Technical data

### Coil side

Typical release time	10 ms
Protective circuit	Bridge rectifier Bridge rectifier
Operating voltage display	Yellow LED
Power dissipation for nominal condition	0.42 W

### Contact side

Contact type	2 PDT
Type of switch contact	Single contact
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC
Maximum switching voltage	36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Min. switching current	1 mA (at 24 V)
Maximum inrush current	50 mA
Limiting continuous current	50 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)

### Contact side (with destroyed gold layer)

Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	15 A (300 ms)
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
Interrupting rating (ohmic load) max.	85 W (at 48 V DC)
Interrupting rating (ohmic load) max.	60 W (at 60 V DC)
Interrupting rating (ohmic load) max.	44 W (at 110 V DC)
Interrupting rating (ohmic load) max.	60 W (at 220 V DC)
Interrupting rating (ohmic load) max.	1500 VA (for 250 V AC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	0.2 A (at 110 V, DC13)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	0.2 A (at 250 V, DC13)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, AC15)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 120 V, AC15)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 250 V, AC15)

### Connection data input side

Connection name	Coil side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

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## Technical data

### Connection data input side

<b>Conductor cross section AWG</b>	26 ... 14
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### Connection data output side

<b>Connection name</b>	Contact side
<b>Connection method</b>	Push-in connection
<b>Stripping length</b>	8 mm
<b>Conductor cross section solid</b>	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
<b>Conductor cross section flexible</b>	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
<b>Conductor cross section AWG</b>	26 ... 14

### General

<b>Operating mode</b>	100% operating factor
<b>Degree of protection</b>	RT III (Relay)
<b>Degree of protection</b>	IP20 (Relay socket)
<b>Mechanical service life</b>	3 x 10 <sup>7</sup> cycles
<b>Flammability rating according to UL 94</b>	V0
<b>Mounting position</b>	any
<b>Assembly instructions</b>	In rows with zero spacing

### Standards and Regulations

<b>Connection in acc. with standard</b>	CUL
<b>Designation</b>	Standards/regulations
<b>Standards/regulations</b>	IEC 60664
<b>Standards/regulations</b>	EN 50178
<b>Rated surge voltage</b>	6 kV
<b>Insulation</b>	Basic insulation
<b>Degree of pollution</b>	2
<b>Overvoltage category</b>	III
<b>Flammability rating according to UL 94</b>	V0

### Environmental Product Compliance

<b>China RoHS</b>	Environmentally Friendly Use Period = 50
<b>China RoHS</b>	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

<b>eCl@ss 5.0</b>	27371601
<b>eCl@ss 5.1</b>	27371601
<b>eCl@ss 6.0</b>	27371601
<b>eCl@ss 7.0</b>	27371601
<b>eCl@ss 8.0</b>	27371601
<b>eCl@ss 9.0</b>	27371601

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## Classifications

### ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437
ETIM 5.0	EC001437
ETIM 6.0	EC001437

### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39122334

## Approvals

UL Listed / cUL Listed / UL Recognized / cUL Recognized / EAC / RC FRT / DNV GL / cULus Recognized / cULus Listed /

### Approval details

- UL Listed
- cUL Listed
- UL Recognized
- cUL Recognized
- EAC
- RC FRT
- DNV GL
- cULus Recognized
- cULus Listed

## Accessories

### DIN rail

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### Accessories

NS 35/ 7,5 V2A UNPERF 2000MM - 0801377

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NS 35/ 7,5 PERF 2000MM - 0801733

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NS 35/ 7,5 CU UNPERF 2000MM - 0801762



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NS 35/15 UNPERF 2000MM - 1201714



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NS 35/15 CU UNPERF 2000MM - 1201895



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NS 35/15-2,3 UNPERF 2000MM - 1201798



## Relay Module - PLC-RPT- 24UC/21-21AU - 2900339

### Accessories

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NS 35/15 AL UNPERF 2000MM - 1201756



NS 35/15 PERF 2000MM - 1201730



NS 35/ 7,5 UNPERF 2000MM - 0801681

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### Terminal marking

ZB10/WH-100:UNBEDRUCKT - 5060883



ZB 10:UNBEDRUCKT - 1053001



### Labeled terminal marker

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## Accessories

ZB10,LGS:FORTL.ZAHLEN - 1053014



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## Partition plate

PLC-ATP BK - 2966841



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## Power module

PLC-ESK GY - 2966508



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## Screwdriver tools

SZF 1-0,6X3,5 - 1204517



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## Drawings

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