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Solid-state relay module - PLC-PT-EIK 1-SVN 24P/P - 2900397

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PLC-INTERFACE for NAMUR applications, consisting of PLC-BPT.../21 basic terminal block with push-in connection and integrated circuit, for mounting on DIN rail NS 35/7,5, positive switching, 1 N/O contact, input voltage 24 V DC

The illustration shows the versions with screw connection

Why buy this product

- Connection option for PLC-V8 adapter
- Stabilized supply voltage for the NAMUR proximity switch
- 24 V/50 mA digital output for directly connecting programmable logic controllers



Key Commercial Data

Packing unit	10 STK
GTIN	4 046356 506779

Technical data

Note

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

Width	6.2 mm
Height	80 mm
Depth	86 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

Input data

Designation	Device supply
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Technical data

Input data

Nominal input voltage U_N	24 V DC $\pm 20\%$
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	19.2 V DC ... 26.4 V DC
Typical input current at U_N	approx. 14 mA
Max. current consumption	approx. 70 mA (at 50 mA output current)
Operating voltage display	Green LED
Type of protection	Protection against polarity reversal
	Surge protection
Protective circuit/component	Polarity protection diode
	Suppressor diode
Designation	Control circuit
Nominal input voltage U_N	8.2 V DC $\pm 10\%$
Type of protection	Surge protection
Protective circuit/component	Suppressor diode
Non-load voltage	8.2 V DC $\pm 10\%$
Switching point	≥ 2.1 mA (In conductive state)
	≤ 1.2 mA (In blocking state)
	6.3 mA ... 0.01 A (in the event of a short-circuit)
	0 mA ... 0.00035 A (In the event of a wire break)
Switching hysteresis	approx. 0.2 mA
Internal resistance	approx. 1 k Ω
Cable length	< 30 m
Power dissipation for nominal condition	0.34 W

Output data

Designation	Signal output
Output nominal voltage	≤ 100 mV (In conductive state)
	$U_{VN} - U_{Ri}$; in blocking state
Limiting continuous current	50 mA
Transmission frequency	approx. 350 Hz
Voltage drop at max. limiting continuous current	≤ 1.5 V (U_R)
Status display	Green LED
Indication	Red LED
Type of protection	Surge protection
Protective circuit/component	Suppressor diode
Designation	Alarm output
Output nominal voltage	$U_{VN} - U_{Res}$
Limiting continuous current	50 mA
Voltage drop at max. limiting continuous current	≤ 2 V (U_{Rest})
Indication	Red LED
Type of protection	Surge protection

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Technical data

Output data

Protective circuit/component	Suppressor diode
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Connection data, input side

Connection name	Input side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14

Connection data, output side

Connection name	Output side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14

General

Mounting position	any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Flammability rating according to UL 94	V0
Designation	Air clearances and creepage distances
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage/insulation	0.4 kV/Basic isolation
Rated insulation voltage	50 V DC
Degree of pollution	2
Overvoltage category	I

Standards and Regulations

Connection in acc. with standard	CUL
Designation	Air clearances and creepage distances
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated insulation voltage	50 V DC
Rated surge voltage/insulation	0.4 kV/Basic isolation
Degree of pollution	2
Overvoltage category	I

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Technical data

Standards and Regulations

Flammability rating according to UL 94	V0
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Classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371604

ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC000196
ETIM 5.0	EC001504

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39121542

Approvals

Approvals

Approvals

UL Listed / cUL Listed / UL Recognized / cUL Recognized / EAC / cULus Recognized / cULus Listed

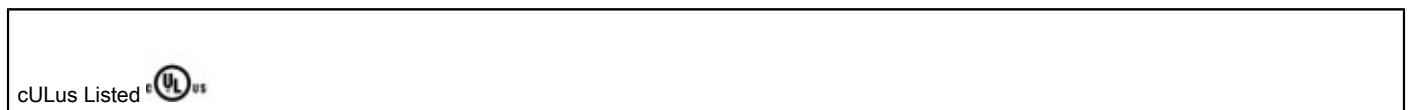
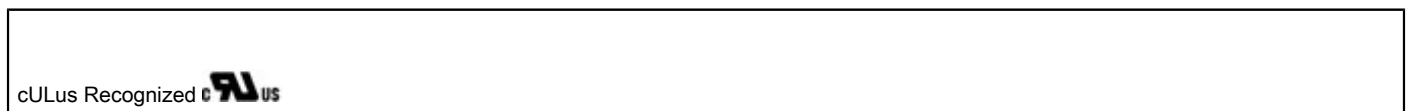
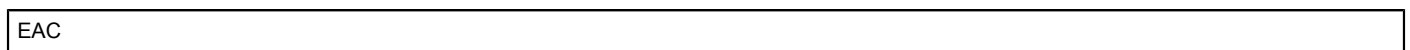
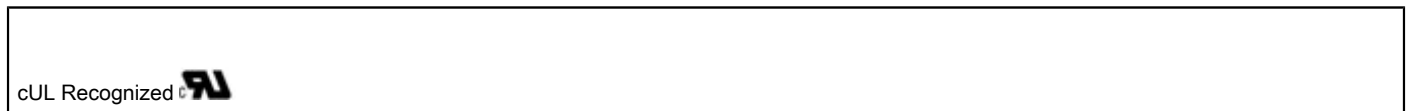
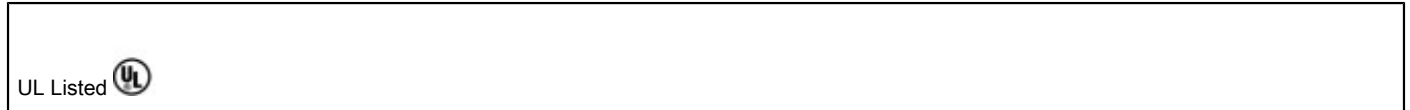
Ex Approvals

Approvals submitted

Approval details

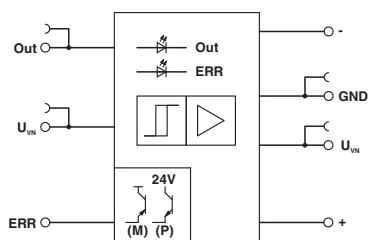
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Approvals

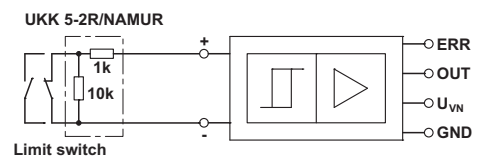


Drawings

Circuit diagram

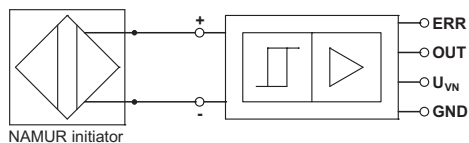


Application drawing



Solid-state relay module - PLC-PT-EIK 1-SVN 24P/P - 2900397

Application drawing



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