Solid-state relay module - PLC-SC-EIK 1-SVN 24P/P - 2982663

Single-channel NAMUR module with 24 V DC input voltage

Product Features

- 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

package_quantity	10
GTIN	4046356147330

Technical data

Note:

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

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

Name	Supply
Nominal input voltage U_N	24 V DC ±20 %
Input voltage range in reference to U_N	0.8 ... 1.2
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

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Input data

Type of protection	Protection against polarity reversal
Type of protection	Surge protection
Protective circuit/component	Polarity protection diode
Protective circuit/component	Suppressor diode
Name	Control circuit
Nominal input voltage U_N	8.2 V DC ±10 %
Type of protection	Surge protection
Protective circuit/component	Suppressor diode
Non-load voltage	8.2 V DC ±10 %
Switching point	≥ 2.1 mA (In conductive state)
Switching point	≤ 1.2 mA (In blocking state)
Switching point	6.3 mA ... 10 mA (in the event of a short-circuit)
Switching point	0 mA ... 0.35 mA (In the event of a wire break)
Switching hysteresis	approx. 0.2 mA
Internal resistance	approx. 1 kΩ
Cable length	< 30 m

Output data

Name	Signal output
Output nominal voltage	≤ 100 mV (In conductive state)
Output nominal voltage	(U_{VN} - U_R; 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
Name	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
Protective circuit/component	Suppressor diode

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	2.5 mm²

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Connection data

Conductor cross section stranded min.	0.14 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	12

General

Mounting position	Any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Inflammability class according to UL 94	V0
Name	Air and creepage distances
Standards/regulations	IEC 60664
Standards/regulations	EN 50178
Standards/regulations	IEC 62103
Rated surge voltage / insulation	0.4 kV / Basic isolation
Rated insulation voltage	50 V DC
Pollution degree	2
Surge voltage category	I

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	27371001

ETIM

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

UNSPSC

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

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approvals

UL Listed / cUL Listed / GL / cULus Listed /

Approval details

UL Listed

cUL Listed

GL

cULus Listed

accessories

Mounting rail

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

NS 35/ 7,5 PERF 2000MM - 0801733

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

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accessories

NS 35/15 UNPERF 2000MM - 1201714

NS 35/15 CU UNPERF 2000MM - 1201895

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

NS 35/15 AL UNPERF 2000MM - 1201756

NS 35/15 PERF 2000MM - 1201730

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accessories

NS 35/ 7,5 UNPERF 2000MM - 0801681

Power module

PLC-ESK GY - 2966508

Partition plate

PLC-ATP BK - 2966841

Screwdriver tools

SZF 1-0,6X3,5 - 1204517

Controller board

PLC-V8/FLK14/IN - 2296553

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accessories

PLC-V8/FLK14/IN/M - 2304115

PLC-V8/D15B/IN - 2296087

Interface module

PLC-V8/D15S/IN - 2296074

Bridge

FBST 500-PLC RD - 2966786

FBST 500-PLC BU - 2966692

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accessories

FBST 500-PLC GY - 2966838

FBST 6-PLC RD - 2966236

FBST 6-PLC BU - 2966812

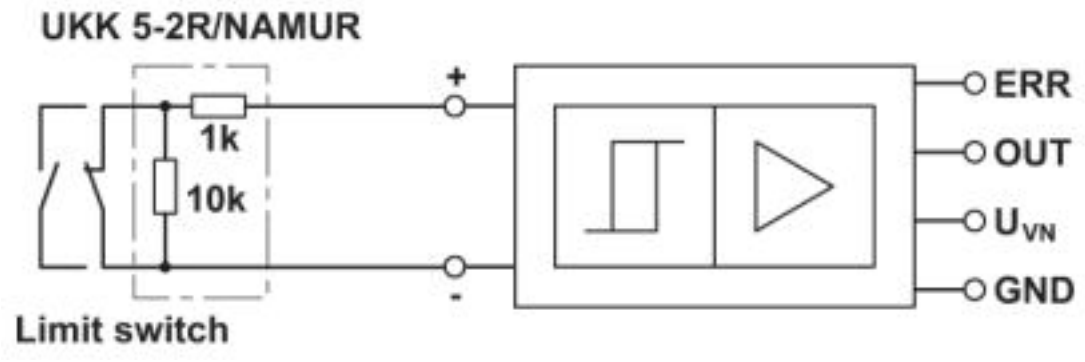
FBST 6-PLC GY - 2966825

FBST 8-PLC GY - 2967688

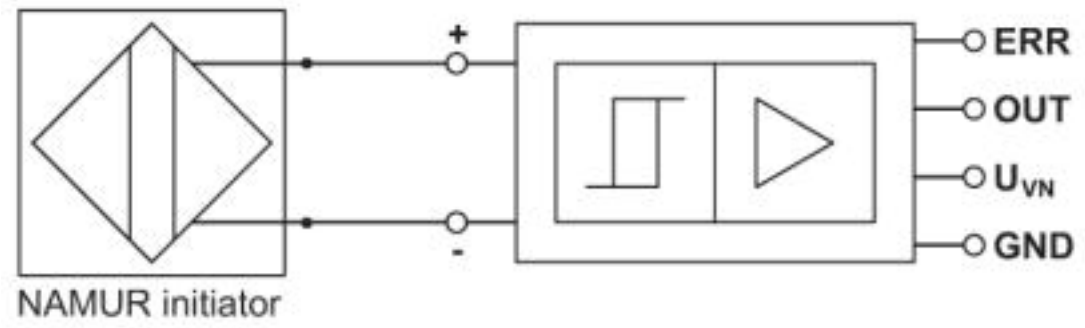
Drawings

Solid-state relay module - PLC-SC-EIK 1-SVN 24P/P - 2982663

Application drawing



Application drawing



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Circuit diagram