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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

#### **Product Features**

- 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         | 1 pc     |
|----------------------|----------|
| Custom tariff number | 85369010 |
| Country of origin    | Germany  |

## 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 |



# Technical data

#### Ambient conditions

| Degree of protection | IP20 |
|----------------------|------|
|----------------------|------|

## Input data

| Designation  | Supply   |
|--|--|
| Nominal input voltage U <sub>N</sub>               | 24 V DC ±20 %                                  |
| Input voltage range in reference to U <sub>N</sub> | 0.8 1.2  |
| Typical input current at U <sub>N</sub>            | 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 <sub>N</sub>               | 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)                 |
|  | ≤ 1.2 mA (In blocking state)                   |
|  | 6.3 mA 10 mA (in the event of a short-circuit) |
|  | 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

| Designation                                      | Signal output  |
|--|--|
| Output nominal voltage                           | ≤ 100 mV (In conductive state)                       |
|  | U <sub>VN</sub> - U <sub>R</sub> ; in blocking state |
| Limiting continuous current                      | 50 mA  |
| Transmission frequency                           | approx. 350 Hz                                       |
| Voltage drop at max. limiting continuous current | ≤ 1.5 V (U <sub>R</sub> )                            |
| Status display                                   | Green LED  |
| Indication                                       | Red LED  |
| Type of protection                               | Surge protection                                     |
| Protective circuit/component                     | Suppressor diode                                     |
| Designation                                      | Alarm output   |



# Technical data

## Output data

| Output nominal voltage                           | U <sub>VN</sub> - U <sub>Res</sub> |
|--|------------------------------------|
| Limiting continuous current                      | 50 mA                              |
| Voltage drop at max. limiting continuous current | $\leq$ 2 V (U <sub>Rest</sub> )    |
| Indication                                       | Red LED                            |
| Type of protection                               | Surge protection                   |
| Protective circuit/component                     | Suppressor diode                   |

#### Connection data

| Connection method                      | Push-in connection |
|--|--------------------|
| Stripping length                       | 8 mm               |
| Conductor cross section solid min.     | 0.14 mm²           |
| Conductor cross section solid max.     | 2.5 mm²            |
| 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  | 14                 |

#### General

| Mounting position                       | any                        |
|---|----------------------------|
| Assembly instructions                   | In rows with zero spacing  |
| Operating mode                          | 100% operating factor      |
| Inflammability class according to UL 94 | V0                         |
| Designation                             | Air 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                    |
| 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 |



## Classifications

## eCl@ss

| 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 | EC000196 |
| ETIM 5.0 | EC000196 |

#### **UNSPSC**

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

## Approvals

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|---|---|---|---|---|---|---|----|
|   |   |   |   |   |   |   |    |

Approvals

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

Ex Approvals

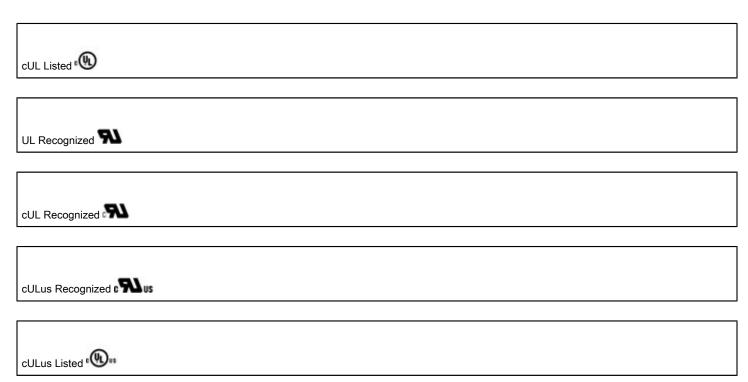
Approvals submitted

## Approval details



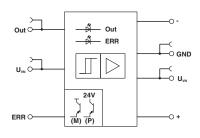


# Approvals

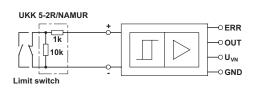


# **Drawings**

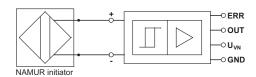




## Application drawing



#### Application drawing





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