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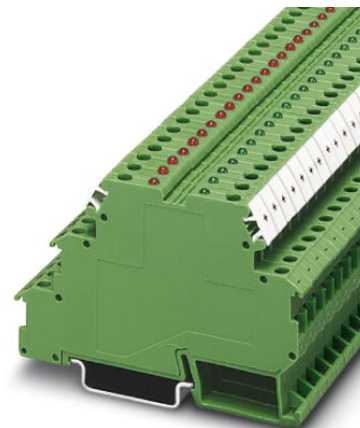
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Extract from the online catalog

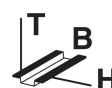
## EIK1-SVN-24P


Order No.: 2940799



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2940799>

Switching amplifier electronic terminal block, for inductive proximity sensors acc. to NAMUR, with light indicators for sensor signal and faults



| Commercial data          |  |
|--------------------------|--|
| GTIN (EAN)               | <br>4 017918 080242 |
| sales group              | G042   |
| Pack                     | 10 pcs.  |
| Customs tariff           | 85364190   |
| Catalog page information | Page 142 (IF-2009)   |

### Product notes

WEEE/RoHS-compliant since:  
04/01/2007



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

### Technical data

#### Input data

|                          |  |
|--------------------------|--|
| Name                     | Supply   |
| Input voltage range      | 18.5 V DC ... 28.8 V DC ( $U_{VN}$ , see derating curve) |
| Max. current consumption | 70 mA (at 50 mA output current)                          |

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|                              |  |
|------------------------------|--|
| Operating voltage display    | Green LED  |
| Type of protection           | Protection against polarity reversal                       |
| Protective circuit/component | Polarity protection diode                                  |
| Transmission frequency       | 1 kHz  |
| Name                         | Control circuit  |
| Nominal input voltage $U_N$  | 8.2 V DC $\pm 10\%$  |
| Indication                   | visual short-circuit and wire break control with LED (red) |
| Type of protection           | 12 V Zener diode   |
| Protective circuit/component | 12 V Zener diode   |
| Transmission frequency       | 1 kHz  |
| Switching point              | $\geq 2.1$ mA (In conductive state)                        |
|                              | $\leq 1.2$ 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 k $\Omega$                                       |

**Output data**

|  |   |
|--|---|
| Name   | Signal output                           |
| Output nominal voltage                           | $\leq 100$ mV (In conductive state)     |
|  | $U_{VN} - U_R$ (In blocking state)      |
| Limiting continuous current                      | 50 mA                                   |
| Voltage drop at max. limiting continuous current | $\leq 1.5$ V ( $U_R$ )                  |
| Type of protection                               | 36 V Zener diode as free-wheeling diode |
| Protective circuit/component                     | 36 V Zener diode as free-wheeling diode |

**Connection data**

|  |                     |
|--|---------------------|
| Type of connection                     | Screw connection    |
| Stripping length                       | 8 mm                |
| Screw thread                           | M3                  |
| Conductor cross section solid min.     | 0.2 mm <sup>2</sup> |
| Conductor cross section solid max.     | 4 mm <sup>2</sup>   |
| Conductor cross section stranded min.  | 0.2 mm <sup>2</sup> |
| Conductor cross section stranded max.  | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG/kcmil min. | 24                  |
| Conductor cross section AWG/kcmil max  | 12                  |

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**General data**

|   |                            |
|---|----------------------------|
| Width                                   | 6.2 mm                     |
| Height                                  | 80 mm                      |
| Depth                                   | 56 mm                      |
| Ambient temperature (operation)         | -25 °C ... 50 °C           |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C           |
| Mounting position                       | Any                        |
| Assembly instructions                   | In rows with zero spacing  |
| Name                                    | Air and creepage distances |
| Standards/regulations                   | IEC 60664                  |
|   | EN 61000-6-2               |
|   | EN 61000-6-4               |
| Pollution degree                        | 2                          |
| Surge voltage category                  | III                        |

**Certificates / Approvals**



Certification

GOST

**Accessories**

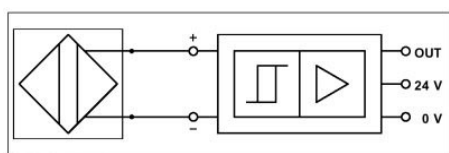
| Item           | Designation   | Description  |
|----------------|---------------|--|
| <b>Bridges</b> |               |  |
| 2716648        | EB 2- DIK BU  | Insertion bridge, Number of positions: 2, Color: blue  |
| 2716693        | EB 2- DIK RD  | Insertion bridge, Number of positions: 2, Color: red   |
| 2716651        | EB 3- DIK BU  | Insertion bridge, Number of positions: 3, Color: blue  |
| 2716745        | EB 3- DIK RD  | Insertion bridge, Number of positions: 3, Color: red   |
| 2716664        | EB 4- DIK BU  | Insertion bridge, Number of positions: 4, Color: blue  |
| 2716758        | EB 4- DIK RD  | Insertion bridge, Number of positions: 4, Color: red   |
| 2716677        | EB 5- DIK BU  | Insertion bridge, Number of positions: 5, Color: blue  |
| 2716761        | EB 5- DIK RD  | Insertion bridge, Number of positions: 5, Color: red   |
| 2716680        | EB 10- DIK BU | Insertion bridge, Number of positions: 10, Color: blue |

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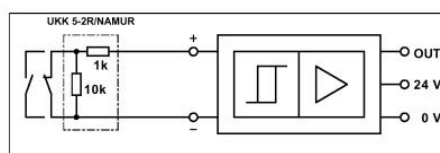
|         |               |   |
|---------|---------------|---|
| 2716774 | EB 10- DIK RD | Insertion bridge, Number of positions: 10, Color: red   |
| 2715940 | EB 80- DIK BU | Insertion bridge, Number of positions: 80, Color: blue  |
| 2715953 | EB 80- DIK RD | Insertion bridge, Number of positions: 80, Color: red   |
| 2715788 | EB 80- DIK WH | Insertion bridge, Number of positions: 80, Color: white |

**Diagrams/Drawings**

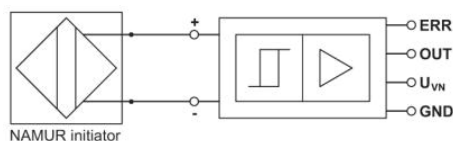
Application drawing



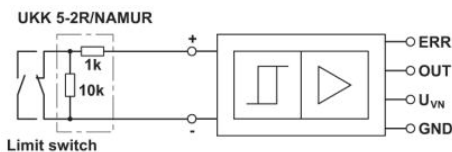
NAMUR initiator



Limit switch

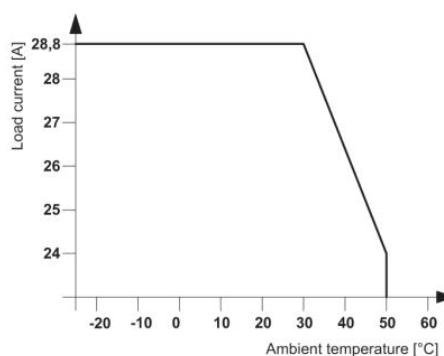
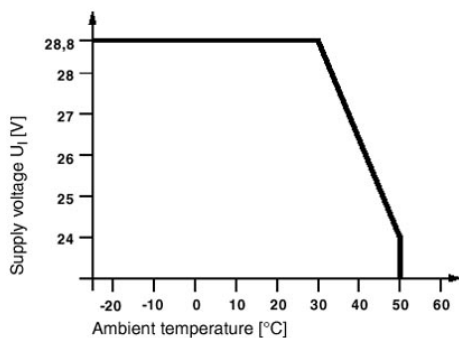


NAMUR initiator

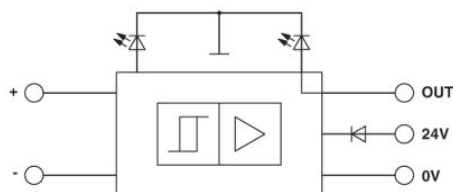


Limit switch

Diagram



Circuit diagram



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