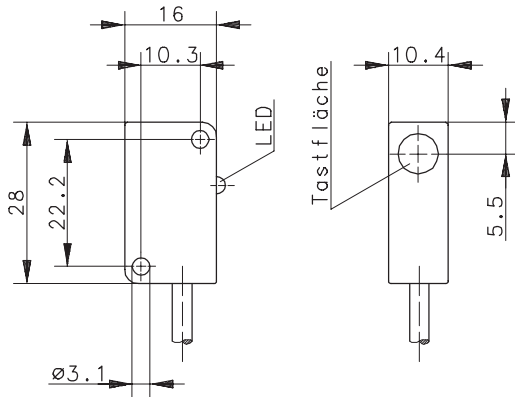


Type: **KIB-E28PS/002-KL2**

Art.-Nr.: **660.2973.092**

09.12.98/1485

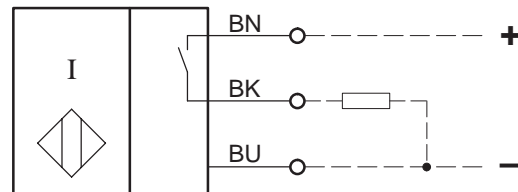


**Allgemeine Kenndaten**

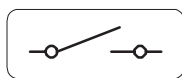
|   |                                      |
|---|--------------------------------------|
| Gehäuse   | PA 6.6, schwarz                      |
| Schutzart   | IP 67                                |
| Umgebungstemperatur                                       | -25 °C bis +70 °C                    |
| Anschlußart   | Kabel 3 × 0,14 mm <sup>2</sup> × 2 m |
| Gegen beliebiges Verpolen der Anschlußleitungen geschützt |                                      |
| Transientenfestigkeit                                     | 200 V für 1 ms bei Ri = 1 kΩ         |
| Ausgang dauerkurzschluß- und Überlastfest                 |                                      |
| Funktionsanzeige  | LED                                  |

**Sonderheiten / Anmerkungen**

Anschlußschema:



**Schaltungsart**



**Plus-Schließer, DC**  
Bei Bedämpfung schaltet PNP  
Transistor Ausgang an Plus

**Spezielle Kenndaten**

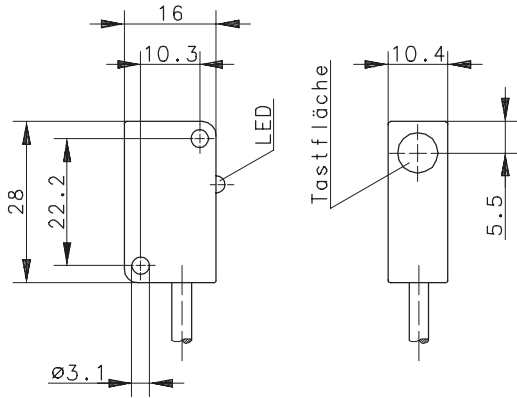
**Bemerkungen**

|                           |       |              |   |
|---------------------------|-------|--------------|---|
| Bemessungsschaltabstand   | $s_n$ | 2 mm         | $s_r = s_n \pm 10 \%$   |
| Gesicherter Schaltabstand | $s_a$ | 0 ... 1,6 mm |   |
| Einbauart                 |       | bündig       |   |
| Nennspannung              | $U_e$ | 12 – 24 V DC |   |
| Betriebsspannung          | $U_B$ | 10 – 30 V DC | einschließlich Restwelligkeit                                       |
| Schaltstrom               | $I_e$ | ≤ 200 mA     |   |
| Reststrom                 | $I_R$ | < 0,1 mA     |   |
| Stromaufnahme ohne Last   | $I_o$ | < 11 mA      |   |
| Spannungsabfall           | $U_d$ | ≤ 1,6 V      | zuzüglich 0,06 V pro m Anschlußleitung<br>und 200 mA Last bei 20 °C |
| Schalthysterese           | H     | ≈ 10 %       | bezogen auf $s_r$   |
| Reproduzierbarkeit        | R     | ≈ 5 %        |   |
| Bereitschaftsverzug       | $t_v$ | ≤ 50 ms      |   |
| Schaltfrequenz            | f     | 800 Hz       |   |

# Data Sheet

## Inductive Proximity Sensor

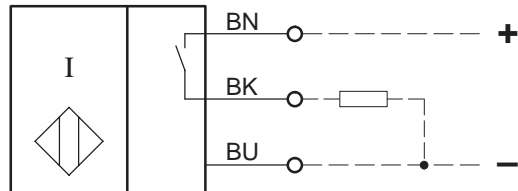
Type: **KIB-E28PS/002-KL2**      Art.-No.: **660.2973.092**      09.12.98/1485



| General Features                           |                                      |
|--|--------------------------------------|
| housing                                    | PA 6.6, black                        |
| protection                                 | IP 67                                |
| operating temperature                      | -25°C to 70°C                        |
| termination type                           | cable 3 × 0,14 mm <sup>2</sup> × 2 m |
| protection against reverse supply polarity |                                      |
| max. transient voltage rate                | 200 V for 1 ms at Ri = 1 kΩ          |
| permanent overload and s.c.p.              |                                      |
| indication                                 | LED                                  |

**Options / Comments**

**Wiring Diagram:**



**Electrical Output**

Make (normally open)

**PNP**      The sensor switches the load to the positive terminal.

| Characteristics                |       |              | Remarks  |
|--------------------------------|-------|--------------|--|
| rated operating distance       | $s_n$ | 2 mm         | $s_r = s_n \pm 10 \%$                            |
| assured operating distance     | $s_a$ | 0 ... 1,6 mm |  |
| mounting                       |       | flush        |  |
| rated operational voltage      | $U_e$ | 12 – 24 V DC |  |
| operational voltage range      | $U_B$ | 10 – 30 V DC | incl. ripple frequency                           |
| rated operational current      | $I_e$ | ≤ 200 mA     |  |
| off-state current              | $I_R$ | < 0,1 mA     |  |
| non-load supply current        | $I_o$ | < 11 mA      |  |
| voltage drop                   | $U_d$ | ≤ 1,6 V      | add. 0,06 V per m cable and 200 mA Load at 20 °C |
| hysteresis                     | H     | ≈ 10 %       | relative to $s_r$                                |
| repeat accuracy                | R     | ≈ 5 %        |  |
| time delay before availability | $t_v$ | ≤ 50 ms      |  |
| frequency of operating cycles  | f     | 800 Hz       |  |