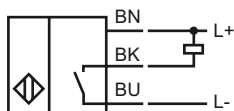


**Model Number****IMT 8-1B5-NS-K3**

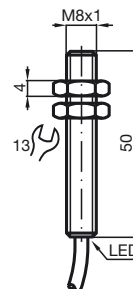
Inductive sensor

**Features**

- Basic series

**Connection****Safety Note**

The use of this device in applications, where the safety of persons depends from the devices function, is not allowed!

**Dimensions****Technical Data****General specifications**

|                            |                      |
|----------------------------|----------------------|
| Switching element function | NPN Make function    |
| Rated operating distance   | $s_n$ 1.5 mm         |
| Installation               | embeddable           |
| Output polarity            | DC                   |
| Assured operating distance | $s_a$ 0 ... 1.215 mm |
| Reduction factor $r_{AI}$  | 0.45                 |
| Reduction factor $r_{Cu}$  | 0.35                 |
| Reduction factor $r_{V2A}$ | 0.75                 |

**Nominal ratings**

|                                   |       |                                        |
|-----------------------------------|-------|----------------------------------------|
| Operating voltage                 | $U_B$ | 10 ... 30 V                            |
| Switching frequency               | $f$   | 0 ... 1500 Hz                          |
| Reverse polarity protection       |       | protected against reverse polarity     |
| Short-circuit protection          |       | pulsing                                |
| Voltage drop                      | $U_d$ | $\leq 3$ V                             |
| Operating current                 | $I_L$ | 0 ... 100 mA                           |
| Off-state current                 | $I_r$ | 0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C |
| No-load supply current            | $I_0$ | $\leq 15$ mA                           |
| Indication of the switching state |       | LED, yellow                            |

**Standard conformity**

|           |                         |
|-----------|-------------------------|
| Standards | IEC / EN 60947-5-2:2004 |
|-----------|-------------------------|

**Ambient conditions**

|                     |                               |
|---------------------|-------------------------------|
| Ambient temperature | -25 ... 70 °C (248 ... 343 K) |
|---------------------|-------------------------------|

**Mechanical specifications**

|                    |                      |
|--------------------|----------------------|
| Connection type    | 2 m, PVC cable       |
| Core cross-section | 0.14 mm <sup>2</sup> |
| Housing material   | brass                |
| Sensing face       | LCP                  |
| Protection degree  | IP67                 |

**Approvals and certificates**

|             |                               |
|-------------|-------------------------------|
| UL approval | cULus Listed, General Purpose |
|-------------|-------------------------------|