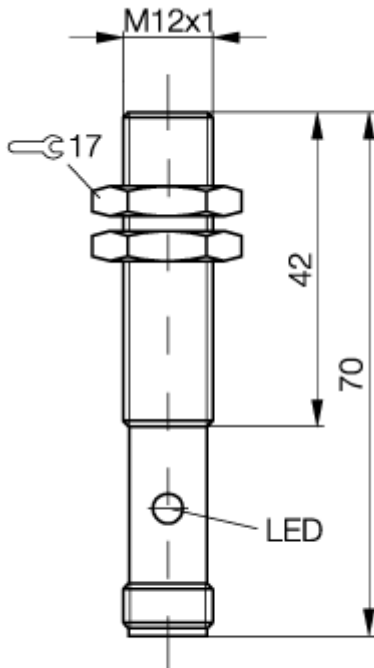
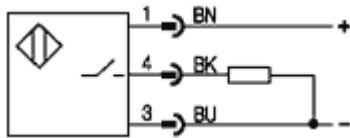


Diffuse  
M12x1  
Sn = 100 mm



PX1252



Utilization categories DC13  
Insulation class 1

If not differently indicated,  
all values by IEC 947-5-2 (DIN EN60947-5-2)

Sensing distance measured with :  
Kodak white card 100mm x 100mm, 90% reflection  
Specifications subject to change

Balluff GmbH  
Postfach 1160  
73761 Neuhausen  
Telefon (07158) 173-0  
Telefax (07158) 5010

### Common Data

|                                      |                 |
|--------------------------------------|-----------------|
| Sensortype                           | Diffuse         |
| Switching frequency                  | 200 Hz          |
| Rated operating distance Sn          | mm 100          |
| Measured operating distance Sa       | mm 80% from Sn  |
| Repeat accuracy                      | < 5% from Sn    |
| Hysteresis                           | < 10%           |
| Indication switching element         | yes, yellow LED |
| Ambient temperature                  | °C -15...+55°C  |
| On/Off-delay                         | < 2,5ms         |
| Light                                | Infrared        |
| Blind zone / min reflectore distance | 1 mm            |
| Permissible ambient light            | lux 5000        |

### Mechanical Data

|                               |                                 |
|-------------------------------|---------------------------------|
| Measurements BxHxT or DxT     | mm M12x70                       |
| Shock test (EN 60068-2-27)    | Halfsinus, 30gn, 11ms           |
| Vibration test (EN 60068-2-6) | 10...55Hz, 1,5mm Amplitude 3x2h |
| Housing material              | nickel plated brass             |
| Material of sensing face      | PMMA                            |
| Degree of protection          | IP IP67                         |
| Connection                    | Connector S4 (M12)              |
| Weight                        | 30g                             |
| Recommended connector         | BKS-S20-4                       |

### Electric Data

|                                |                 |
|--------------------------------|-----------------|
| Current                        | DC              |
| Switching function             | normally-open   |
| Output                         | PNP             |
| Rated operational current Ie   | mA 200mA        |
| Supply voltage                 | V 10...30V DC   |
| Ripple                         | % < 10% from UB |
| No-load supply current         | mA <20          |
| Voltage drop                   | V <2,5V         |
| Short protection               | yes             |
| Protectde against polarity rev | yes             |
| Rated insulation voltage       | 250V AC         |
| Output resistance              | 33kOhm          |
| max. load capacity             | 1µF             |

21.01.2004 / Online-Information