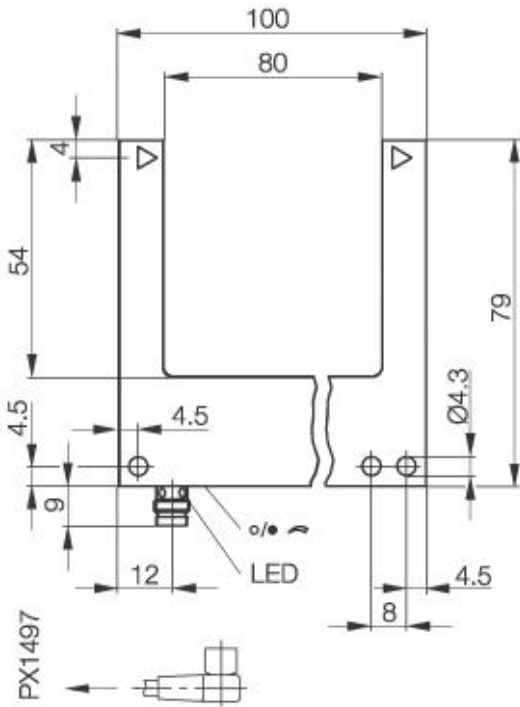


**Photoelectric Sensor**  
**BGL 80A-001-S 49**  
**Sn=mm**  
**Fork-through-beam**



**Common Data**

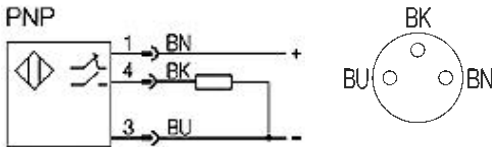
|                                     |                     |
|-------------------------------------|---------------------|
| Series                              | BGL                 |
| Sensortype                          | Fork-through-beam   |
| Switching frequency                 | 1500 Hz             |
| Repeat accuracy                     | 0,06mm              |
| Hysteresis                          | =0,2mm              |
| Indication Switching element on     | yes, red LED        |
| Ambient temperature                 | -10...+60°C         |
| Off-delay                           | 80µs                |
| Light                               | Red light           |
| Wavelength / Laser protection class | 640nm               |
| Sensitivity Adjustment              | Poti 270°           |
| Permissible ambient light           | 5000 Lux            |
| Output function                     | light-on or dark-on |
| Slot spacing                        | 80                  |
| Resolution                          | 0,5                 |

**Mechanical Data**

|                          |                          |
|--------------------------|--------------------------|
| Measurements             | 100x79x10                |
| Housing material         | anodized aluminium       |
| Material of sensing face | Glass                    |
| Degree of protection     | IP65                     |
| Connection               | Connector S49 (M8,3-pin) |
| Weigth                   | 77g                      |
| Recommended connector    | BKS-S 48/BKS-S 49        |

**Electrical Data**

|                                     |                  |
|-------------------------------------|------------------|
| Current                             | DC               |
| Switching function                  | NO/NC switchable |
| Output                              | PNP              |
| Rated operational voltage Ue        | 24V DC           |
| Rated operational current Ie        | 200mA            |
| Supply Voltage                      | 10...30V DC      |
| Frequency of Supply Voltage         | DC               |
| No-load supply current              | <35mA            |
| Voltage drop                        | <3V              |
| Short protection                    | yes              |
| Protected against polarity reversal | yes              |



Utilization categories  
 Insulation class

DC 13

Datasheet number:

Definitions see general catalog.  
 If not otherwise noted, ratings according to  
 IEC 60947-5-2 (DIN EN60947-5-2)

Balluff GmbH  
 Schurwaldstrasse 9  
 73765 Neuhausen a.d.F.  
 Phone (07158) 173-0 Fax (07158) 5010

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**BALLUFF**  
 sensors worldwide