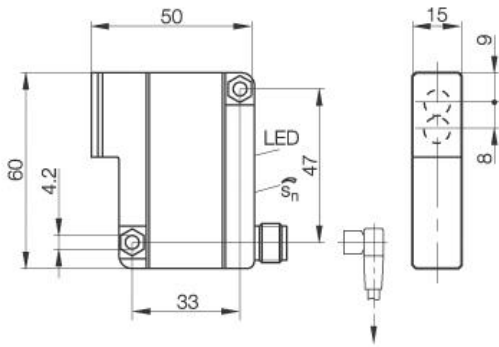


**Photoelectric Sensor**  
**BOS 35K-PS-1RH-S 4-C**  
**Sn=8000mm**  
**Retroreflective**



PX00073

**Common Data**

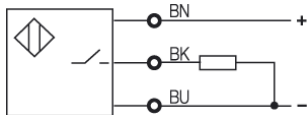
|                                     |                 |
|-------------------------------------|-----------------|
| Series                              | 35K             |
| Sensortype                          | Retroreflective |
| Switching frequency                 | 100 Hz          |
| Rated operating distance Sn in mm   | 8000            |
| assured operating distance Sa       | 8000            |
| Repeat accuracy                     | < 5% from Sn    |
| Indication Switching element on     | yes, yellow LED |
| Ambient temperature                 | -5...+55°C      |
| On-delay                            | < 5ms           |
| Off-delay                           | < 5ms           |
| Light                               | Red light       |
| Blind zone / min Reflector distance | 250/250mm       |
| Permissable ambient light           | 2000 Lux        |
| Output function                     | dark-on         |

**Mechanical Data**

|                          |                                 |
|--------------------------|---------------------------------|
| Measurements             | 50x60x15                        |
| Shock                    | Halfsinus, 30gn, 11ms           |
| Vibration                | 10...55Hz, 1,5mm Amplitude 3x2h |
| Housing material         | Polyamid 12                     |
| Material of sensing face | PMMA                            |
| Degree of protection     | IP67                            |
| Connection               | Connector S4 (M12)              |
| Weighth                  | 40g                             |

**Electrical Data**

|                                     |                  |
|-------------------------------------|------------------|
| Current                             | DC               |
| Switching function                  | normally-open    |
| Output                              | PNP              |
| Rated operational voltage Ue        | 24V DC           |
| Rated operational current Ie        | 200mA            |
| Supply Voltage                      | 10...30V DC      |
| Ripple                              | max. 15% from UB |
| Frequency of Supply Voltage         | DC               |
| Voltage drop                        | <2,5V            |
| Short protection                    | yes              |
| Protected against polarity reversal | yes              |
| Rated insulation voltage            | 250VDC           |
| Output resistance                   | 33kOhm           |
| max. Load capacity                  | 1µF              |



Utilization categories  
 Insulation class

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

Datenblatt by CD-ROM - 04/2007

**BALLUFF**  
 sensors worldwide