

PX0072

# Photoelectric Sensor BOS 35K-PS-1XB-S 4-C Sn=200mm Diffuse

## Common Data

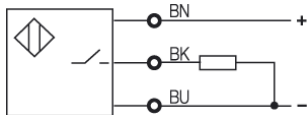
|                                     |              |
|-------------------------------------|--------------|
| Series                              | 35K          |
| Sensortype                          | Diffuse      |
| Switching frequency                 | 100 Hz       |
| Rated operating distance Sn in mm   | 200          |
| assured operating distance Sa       | 80% from Sn  |
| Repeat accuracy                     | < 5% from Sn |
| Indication Switching element on     | yes          |
| Ambient temperature                 | -5...+55°C   |
| On-delay                            | < 5ms        |
| Off-delay                           | < 5ms        |
| Light                               | Infrared     |
| Blind zone / min Reflector distance | 1mm / -      |
| Permissible ambient light           | 2000 Lux     |
| Output function                     | light-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)

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Datenblatt by CD-ROM - 04/2007

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