BALLUFF

BOD 6K Opto sensor with anal og output



Optoelectronic Sensors

BOD 6K

The BOS 6K series represents high-tech in the smallest possible package. The use of microcontroller technology allows all the optical variants (diffuse, retro-reflective) to be offered in the same compact housing. In addition to the previous versions with background suppression, retro-reflective and laser technology, the series now includes a model with analog output.

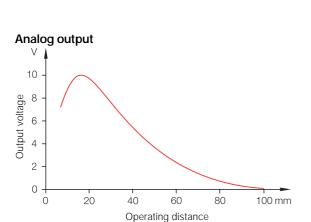
This provides a distanceproportional analog output signal (0...10 V) and a switching output calibrated using a teach-in process. This miniature sensor $(32 \times 20 \times 12 \text{ mm})$ is ready to use without requiring a separate amplifier, providing both the analog output signal and the digital switching output. Thanks to the background suppression, any change in the color or surface characteristics has no affect on the switching behavior. Setup is performed using teach-in and a clearly visible, precisely defined light spot.

Features

- Analog output signal (0...10 V) plus switching output
- Teach-in calibration
- Background suppression
- Visible, precise light spot
- Working range 20...80 mm

Applications

- Automatic control
- Object sensing
- Object positioning
- Level sensing



Series	
Working range	
Analog output	



Diffuse PNP O/●

20...80 mm

HGA, red light, Teach-in

Diffuse values referenced to Kodak gray card with 90 % reflection.

Sensors supplied standard with 2 m cable. Other lengths on request.

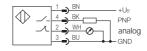


Wiring Diagram

Light spot diameter
Hysteresis (18 %/18 %)

Gray value shift (90 %/18 %)

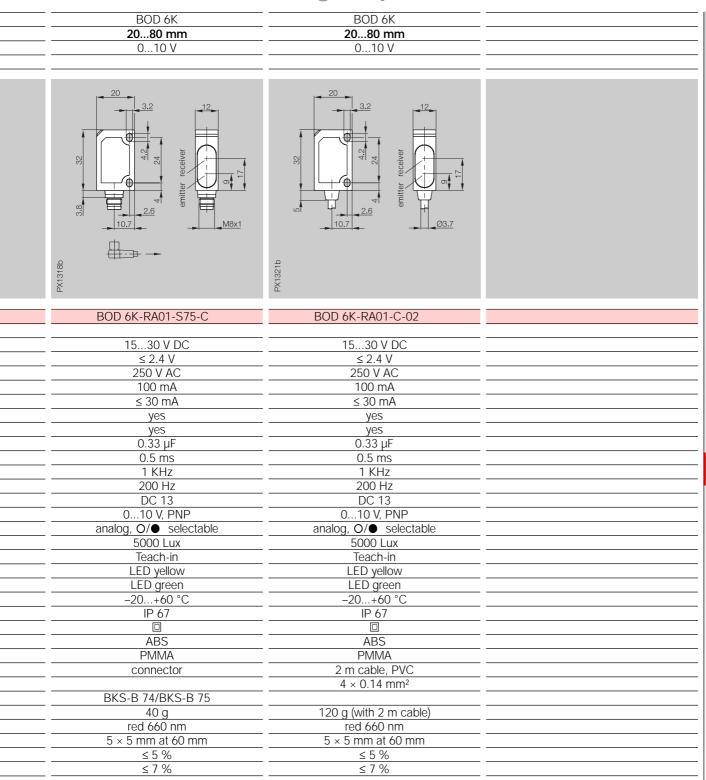
O /● = Light-On/Dark-On



Compact sensors with analog output

Optoelectronic Sensors

BOD 6K Range 80 mm



Recommended accessories

Please order separately



Mounting Bracket BOS 6-HW-1

Connector BKS-B74/BKS-B75



BOS 6K-PU-1HA-S75-C

Diffuse sensor with background suppression and highly visible red light. Range selectable from 25...100 mm.



BOS 6K-PU-1LHA-S75-C

Laser diffuse sensor with precise background suppression, selectable from 20...60 mm. Brilliant red light, extremely small light spot. Ideal for small parts detection with lateral approach.

BOS 6K-PU-10C-S75-C Energetic diffuse sensor with range selectable up to 300 mm.



BOS 6K-PU-1QA-S75-C

Retro-reflective sensor with small hysteresis for sensing glass and films.



BOS 6K-PU-1QC-S75-C

Retro-reflective sensor with 3.5 m range. Polarizing filter for detecting shiny and reflecting surfaces.



BOS 6K-PU-1LQA-S75-C

Laser retro-reflective type with extremely small light spot and optimum visibility of the spot over the entire sensing range. Ideal for small parts detection with lateral approach.



BLS 6K-XX-1E-S75/ BLE 6K-PU-1E-S75-C

Thru-beam type with 6 m range.



http://www.balluff.de

For other sensors see main catalog "The Sensor Program" on CD-Rom or online!



Balluff GmbH Schurwaldstrasse 9 73765 Neuhausen a.d.F. Germany Phone +49 (0) 71 58/1 73-0 Fax +49 (0) 71 58/50 10 E-Mail: balluff@balluff.de