

**Reliable measurement and intelligent connectivity
regardless of material and surface**

PHOTOELECTRIC DISTANCE SENSORS BOD 23K WITH IO-LINK INTERFACE

BOD 23K sensors offer technical and economic benefits for meeting the demands of diverse industrial positioning tasks. For example stack height measurement in palletizing. This new, universally applicable time-of-flight sensor operates highly reliably regardless of the surface characteristics of the target object. Its IO-Link interface offers simple startup and a wide range of parameterizing options for optimal and flexible matching to the application. The IO-Link diagnostics functions enable preventive measures for reducing failure risk.

Features

- High accuracy, precision and signal stability regardless of the surface properties
- Great flexibility thanks to comprehensive parameterizing options
- Minimal downtimes and stable operation with online parameterizing and additional diagnostics and status information
- Simple, cost-saving installation and wiring
- Compact housing with IP67, IP69K and Ecolab certification
- Maximum personal protection with Laser Class 1



BOD 23K permits reliable and precise positioning or measurement of the workpieces regardless of material and surface properties.

PHOTOELECTRIC
DISTANCE SENSORS
BOD 23K



| | BOD001N | BOD001P | BOD0020 |
|---|---|--|-----------------------------------|
| Outputs | Analog, voltage, 0...10 V, switching output (NO/NC) | Analog, current, 4...20 mA, switching output (NO/NC) | IO-Link, switching output (NO/NC) |
| Measuring range | 100...5000 mm | 100...5000 mm | 100...5000 mm |
| Resolution | 5 mm | 5 mm | 5 mm |
| Repeat accuracy | 0.024 % FS | 0.024 % FS | 0.024 % FS |
| Accuracy max. | 0.6 % FS | 0.6 % FS | 0.6 % FS |
| Emitter, light type | Laser red light | Laser red light | Laser red light |
| Laser class IEC 60825-1 | 1 | 1 | 1 |
| Operating voltage | 18...30 V DC | 18...30 V DC | 18...30 V DC |
| No-load supply current | 60 mA | 60 mA | 60 mA |
| Ambient temperature | -40...+60 °C | -40...+60 °C | -40...+60 °C |
| Dimensions | 51 x 23 x 52.4 mm | 51 x 23 x 52.4 mm | 51 x 23 x 52.4 mm |
| Degree of protection (IEC 60529, DIN 40050) | IP67, IP69K | IP67, IP69K | IP67, IP69K |
| Conformity/Approval | CE, cULus, ECOLAB | CE, cULus, ECOLAB | CE, cULus, ECOLAB |
| Connection | M12 connector, 5-pin | M12 connector, 5-pin | M12 connector, 4-pin |

ACCESSORIES



| | BAM027E | BAM01FM | BAM029M | BAM029L |
|------|---------------------------------------|---------------------------------------|--------------------------------------|--|
| Type | Mounting brackets for optical sensors | Mounting brackets for optical sensors | Protective cover for optical sensors | Protective cover for optical sensors, for use in a potentially explosive environment |

CONNECTOR



| | BCC039P | BCC032L | BCC03AR | BCC0332 |
|------|--|---|--|--|
| Type | M12 female straight, M12 male straight, 4 wires, 5 m cable | M12 female straight, 4 wires, 5 m cable, shielded | M12 female right-angle, M12 male right-angle, 4 wires, 5 m cable | M12 female right-angle, 4 wires, 5 m cable, shielded |