Technical Description

The SDS-10 series of photoelectric sensors incorporate the latest background suppression technology. They were developed specifically for industrial applications requiring precise range detection. The SDS-10 series can reliably detect any target regardless of color and background influences.

The SDS-10 series has modulated visible light emission with a small spot diameter that allows easy alignment even when detecting small objects.

The SDS-10 series is supplied with 10 to 30 Vdc. 200 mA PNP output and is available in normally open

and normally closed simultaneously. All sensors in this series are also short circuit protected. There is a sensitivity adjustment on all models to ensure simple setup. A yellow LED indicates the logic output state.

Two models are offered to guarantee maximum flexibility of the SDS-10 series:

- straight optic model
- 90° optic model.

Connection can be made through a 3m cable or M12 connector.

The SDS-10 photoelectric sensor series is contained in an 18mm cylindrical metal housing with an IP67 protection class rating.

Features

- Precision adjustable background suppression from 40 to 120 mm
- 10-30 Vdc Power Supply
- Red visible light emission
- Max. switching frequency
- Straight or 90° optics
- Complementary switching output
- M12 connector or cable connection
- Metal housing IP67

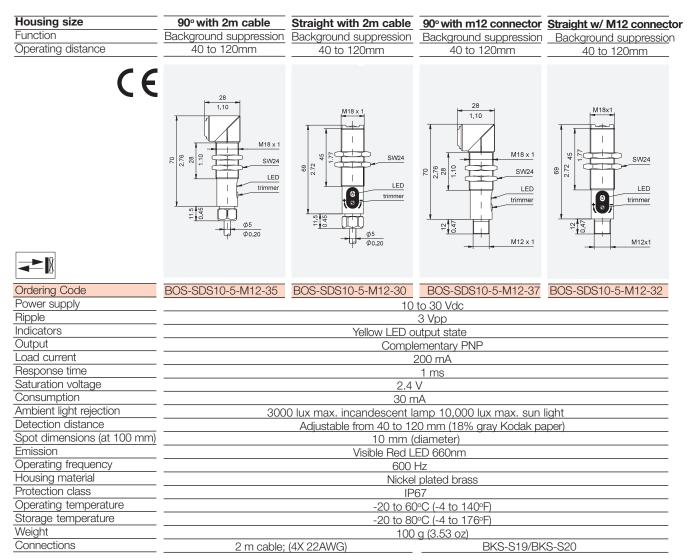
Applications

- Small object detection
- Level control
- Fast object detection
- Automatic machinery
- Automotive industry

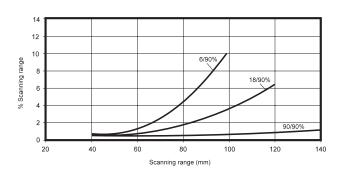




Precision Background Suppression, SDS10 Series



Sensing Diagram



Connections

