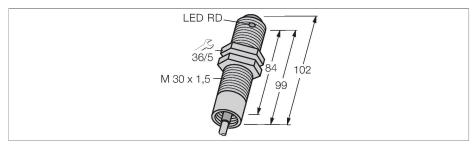
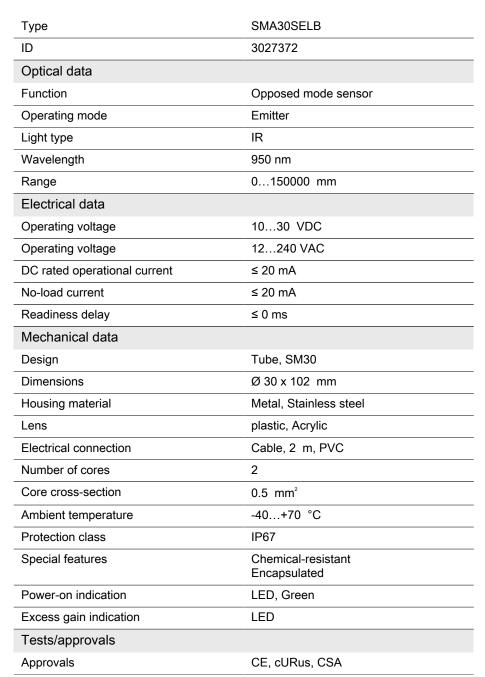


## SMA30SELB Photoelectric Sensor – Opposed Mode Sensor (Emitter)





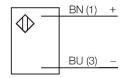


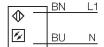


## **Features**

- ■Frequency B
- Modulation frequency B, requires receivers with the same frequency
- Operating voltage 10...30 VDC or 12...240 VAC

## Wiring diagram





## Functional principle

Opposed mode sensors consist of an emitter and a receiver. They are installed opposite to each other whereby the emitted light aims directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque objects. The excellent light/dark contrast and the very high excess gain are typical for this function mode and enable operation over large distances and under difficult conditions.

Excess gain curve Excess gain in relation to distance