

# SMI306ECQ

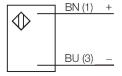
# Opposed Mode Sensor (Emitter)

SMI306ECQ
3035270
Opposed mode sensor
Emitter
IR
950 nm
0140000 mm
1030 VDC
< 10 % U <sub>ss</sub>
≤ 0 ms
< 10 ms
Ø 30 mm
Plastic, Thermoplastic material
Acrylic
Connectors, 7/8", PVC
3
-40+70 °C
IP67
Encapsulated
LED, Green
LED

#### **Features**

■ Operating voltage: 10...30 VDC

## Wiring diagram



## Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite to each other so that the light from the emitter is aimed 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 targets. The excellent light/dark contrast and the high excess gain allow operation over larger distances and under difficult conditions.

Excess gain curve Excess gain in relation to the distance

