

SMI306EYQ

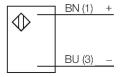
Opposed Mode Sensor (Emitter)

| echnical data | |
|-----------------------|---------------------------------|
| уре | SMI306EYQ |
| D no. | 3035277 |
| Optical data | |
| unction | Opposed mode sensor |
| Operating mode | Emitter |
| ight type | IR |
| Vavelength | 950 nm |
| Range | 060000 mm |
| Electrical data | |
| Operating voltage | 1030 VDC |
| lesidual ripple | < 10 % U _{ss} |
| leadiness delay | ≤ 0 ms |
| esponse time typical | < 1 ms |
| imensions | Ø 30 mm |
| ousing material | Plastic, Thermoplastic material |
| ens | Acrylic |
| lectrical connection | Connectors, 7/8", PVC |
| umber of cores | 3 |
| mbient temperature | -40+70 °C |
| Protection class | IP67 |
| pecial features | Encapsulated |
| ower-on indication | LED, Green |
| xcess gain indication | 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

