

S30AW3FF400Q3 Photoelectric Sensor – Diffuse Mode Sensor with Fixed-Field Background Suppression

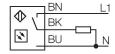
| Technical data | |
|------------------------------|--|
| Туре | S30AW3FF400Q3 |
| ID no. | 3036902 |
| Optical data | |
| Function | Diffuse mode sensor with fixed-field back ground suppression |
| Light type | IR |
| Wavelength | 880 nm |
| Range | 0400 mm |
| Electrical data | |
| Operating voltage | 20250 VAC |
| AC rated operational current | ≤ 200 mA |
| Output function | Light operation, Relay output |
| Switching frequency | ≤ 40 Hz |
| Readiness delay | ≤ 100 ms |
| Response time typical | < 16 ms |
| Mechanical data | |
| Design | Threaded barrel, S30 |
| Dimensions | Ø 30 mm |
| Housing material | Plastic, PBT |
| Lens | plastic, Acrylic |
| Electrical connection | Connectors, M12 × 1, PVC |
| Number of cores | 5 |
| Ambient temperature | -40+70 °C |
| Protection class | IP69 |
| Special features | Wash down |
| Power-on indication | LED, Green |
| Switching state | LED, Yellow |
| Excess gain indication | LED |
| Tests/approvals | |
| MTTF | 448 years acc. to SN 29500 (Ed. 99) 40 °C |
| Approvals | CE, UL, CSA |
| | |



Features

- ■M12 × 1 male connector, 4-pin
- ■Protection classes IP67/IP69K
- ■Ambient temperature: -40 °C...+70 °C

Wiring diagram

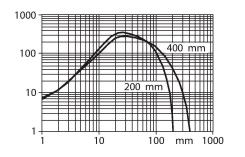


Functional principle

The emitter and receiver are incorporated in a single housing. The light reflection of the target is detected and triggers the sensor to switch. Thus the switching distance largely depends on the reflectivity of the target.

Excess gain curve

Excess gain in relation to the distance





Accessories

SMB30A Ø 30,5 6,3 wide Ø 6,3 38,5 61

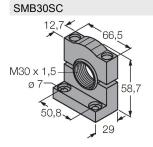
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Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread



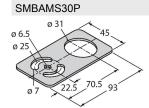
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Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm $\,$



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Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable



Mounting bracket, stainless steel, for sensors with 30 mm thread

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