M18 direct reflection Photoelectric Sensor with adjustable background suppression FARS-7712 (special version for shiny objects)
**GENERAL DESCRIPTION**

- Special model for shiny objects
- 60 to 100 mm sensing distance
- Power supply: 10-30 Vdc, output current 100 mA
- Protection degree IP67
- Complete protection against electrical damages

**TECHNICAL SPECIFICATIONS**

(In conformity with 2004/108/EC directives, according to European law IEC 60947-5-2 amendments (Edition 3.0, 2007-10))

**ELECTRICAL DIAGRAMS OF THE CONNECTIONS**

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**ELECTRICAL DIAGRAMS OF THE CONNECTIONS**

**FARS-7712**

- Model: FARS/**-**7712
- Type: Background suppression
- Nominal sensing distance (Sn): 60 - 100 mm
- Tolerance: +15/-5% Sn
- Type of light: Red (680 nm)
- Repeatability: 10%
- Operating voltage: 10...30 Vcc
- Ripple: ± 10%
- Current consumption: 40 mA
- Load current: 100 mA
- Leakage current: 10 μA (Vcc max.)
- Output voltage drop: 2 V max. (100mA)
- Output type: PNP/NPN; L+D; NO/NC selectable
- Switching frequency: 400 Hz
- Response time: 200 ms
- Distance adjustment: potentiometer
- Immunity to external light: 5,000 lux (incandescent light)
- LED indicators: yellow / light status
- Switching frequency: 10,000 lux (sunlight)
- LED indicators: short circuit / internal error
- IP Protection degree: IP67 (EN60529)
- LED indicators: yellow (output energized)
- Housing material: nickel-plated brass or PBT (plastic)
- Optical material: PMMA

**DIMENSIONS AND PLUG**

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**RESPONSE DIAGRAM**

1) Axial cable output
2) Radial M12 plug cable output
3) Potentiometer for sensitivity adjustment
4) LED