

# Photoelectric Sensor

## DS18VN6FF100Q5

|      |                |
|------|----------------|
| Type | DS18VN6FF100Q5 |
| ID   | 3078119        |

|                |  |
|----------------|--|
| Optical data   |  |
| Function       | Proximity switch                       |
| Operating mode | Background suppression, non-adjustable |
| Wavelength     | 660 nm                                 |
| Range          | 0...100 mm                             |

|                                  |              |
|----------------------------------|--------------|
| Electrical data                  |              |
| Operating voltage $U_s$          | 10...30 VDC  |
| Residual ripple                  | < 10 % $U_s$ |
| DC rated operating current $I_s$ | ≤ 100 mA     |
| Short-circuit protection         | yes          |
| Reverse polarity protection      | yes          |
| Output function                  | NO/NC, NPN   |
| Readiness delay                  | ≤ 100 ms     |
| Response time typical            | < 2 ms       |

|                       |  |
|-----------------------|--|
| Mechanical data       |  |
| Design                | Rectangular with thread, DS18              |
| Dimensions            | Ø 18 x 31.1 x 15 x 47.9 mm                 |
| Housing material      | Plastic, Thermoplastic material            |
| Electrical connection | Cable with connector, M12 × 1, 0.15 m, PVC |
| Number of cores       | 4  |
| Ambient temperature   | -20...+70 °C                               |
| Protection class      | IP67                                       |

|                        |                       |
|------------------------|-----------------------|
| Switching state        | LED, Yellow           |
| Error indication       | LED, green, Flashing  |
| Excess gain indication | LED, yellow, flashing |

|                 |  |
|-----------------|--|
| Tests/approvals |  |
|-----------------|--|



- Operating voltage: 10...30 VDC
- NPN switching output, changeover

### Wiring Diagram

