

# Photoelectric Sensor DS18VN6FF50Q

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Type                             | DS18VN6FF50Q                              |
| ID                               | 3078112                                   |
| <b>Optical data</b>              |                                           |
| Function                         | Proximity switch                          |
| Operating mode                   | Background suppression, non-adjustable    |
| Wavelength                       | 660 nm                                    |
| Range                            | 0...50 mm                                 |
| <b>Electrical data</b>           |                                           |
| 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                                    |
| <b>Mechanical data</b>           |                                           |
| 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, M8 × 1, 0.15 m, PVC |
| Number of cores                  | 4                                         |
| Ambient temperature              | -20...+70 °C                              |
| Protection class                 | IP67                                      |
| <b>Switching state</b>           |                                           |
| Switching state                  | LED, Yellow                               |
| Error indication                 | LED, green, Flashing                      |
| Excess gain indication           | LED, yellow, flashing                     |
| <b>Tests/approvals</b>           |                                           |



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

## Wiring Diagram

