

# DS18VP6FF100

## Photoelectric Sensor

### Technical data

|                              |                                        |
|------------------------------|----------------------------------------|
| Type                         | DS18VP6FF100                           |
| ID                           | 3076544                                |
| <b>Optical data</b>          |                                        |
| Function                     | Proximity switch                       |
| Operating mode               | Background suppression, non-adjustable |
| Wavelength                   | 660 nm                                 |
| Range                        | 0...100 mm                             |
| <b>Electrical data</b>       |                                        |
| Operating voltage            | 10...30 VDC                            |
| Residual ripple              | < 10 % U <sub>ss</sub>                 |
| DC rated operational current | ≤ 100 mA                               |
| Short-circuit protection     | yes                                    |
| Reverse polarity protection  | yes                                    |
| Output function              | NO/NC, PNP                             |
| Current output               | 100 mA                                 |
| 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        |
| Lens                         | Acrylic                                |
| Electrical connection        | Cable, 2 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                  |
| <b>Tests/approvals</b>       |                                        |



### Features

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

### Wiring diagram

