

Overview

- Best measuring performance due to precise measuring principle
- Simple teach-in via qTeach or line teach
- Shortest blind zone in its class
- High performance in compact housing
- Metal connector



Picture similar



Technical data

General data

|                                 |                                 |
|---------------------------------|---------------------------------|
| Scanning range Sd               | 10 ... 250 mm                   |
| Scanning range close limit Sdc  | 10 ... 250 mm                   |
| Scanning range far limit Sde    | 10 ... 250 mm                   |
| Hysteresis typ.                 | 4 % Sde                         |
| Repeat accuracy                 | 0.5 mm                          |
| Resolution                      | < 0.3 mm                        |
| Response time ton/toff standard | < 25 ms                         |
| Response time ton/toff min      | < 10 ms                         |
| Temperature drift               | < 2 % of distance to target Sde |
| Power-up drift                  | Compensated after 15 min.       |
| Sonic frequency                 | 370 kHz                         |
| Adjustment                      | qTeach, line-Teach              |
| Light indicator                 | LED yellow                      |
| Power on indication             | LED green                       |
| Alignment measuring axis        | < 2°                            |

Electrical data

|                             |                           |
|-----------------------------|---------------------------|
| Voltage supply range +Vs    | 12 ... 30 VDC             |
| Current consumption typ.    | 11 mA                     |
| Output circuit              | Current output            |
| Output signal               | 4 ... 20 mA / 20 ... 4 mA |
| Load resistance             | < (+Vs - 10V) / 0,02 A    |
| Residual ripple             | < 10 % Vs                 |
| Short circuit protection    | Yes                       |
| Reverse polarity protection | Yes, Vs to GND            |

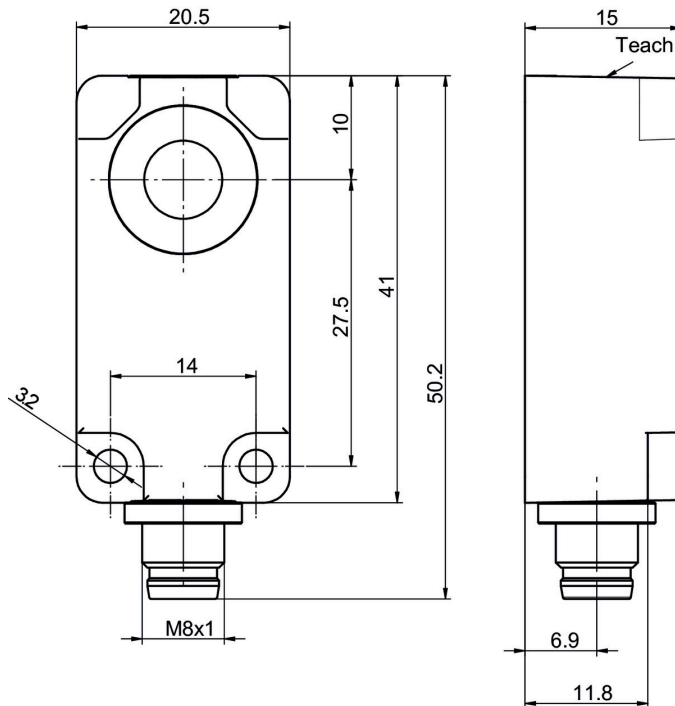
Mechanical data

|                  |                     |
|------------------|---------------------|
| Design           | Rectangular         |
| Housing material | Plastic (ASA, PMMA) |
| Width / diameter | 20.5 mm             |
| Height / length  | 41 mm               |
| Depth            | 15 mm               |
| Connection types | Connector M8 4 pin  |

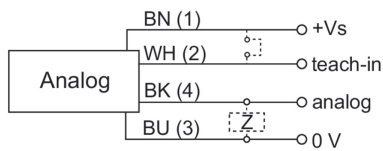
Ambient conditions

|                       |                |
|-----------------------|----------------|
| Operating temperature | -25 ... +65 °C |
| Storage temperature   | -25 ... +75 °C |
| Protection class      | IP 67          |

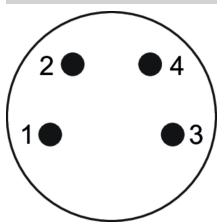
#### Dimension drawing



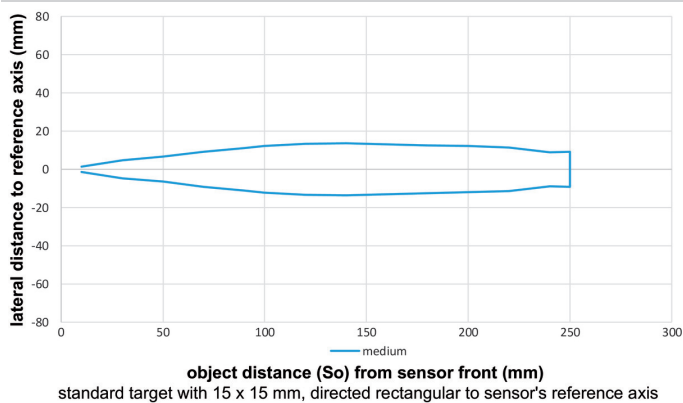
#### Connection diagram



#### Pin assignment



#### Typical sonic cone profile



**Accessories****Mounting accessories**

|          |                                                |
|----------|------------------------------------------------|
| 11727892 | Mounting plate series UF200 and UF300          |
| 11707688 | Mounting rod 200 mm                            |
| 11707685 | Mounting rod with mounting plate holder 200 mm |
| 11707697 | Mounting rod 250 mm                            |
| 11707698 | Mounting rod with mounting plate holder 250 mm |
| 11707687 | Mounting rod 300 mm                            |
| 11707686 | Mounting rod with mounting plate holder 300 mm |
| 11707702 | Mounting base                                  |
| 11707703 | Two-way connector                              |
| 10150326 | 10150326                                       |
| 10153290 | ZUSDF-USS.S20                                  |