Baumer
Passion for Sensors

Ultrasonic distance measuring sensors

# UR18.DA0.2-UA1B.9SF

Article number: 11200641

## overview

- 20 … 1000 mm
- voltage output
- qTeach, line-Teach
- connector M12 5 pin
- -25 … 65 °C
- IP 69

## Technical data

| general data | |
|---|---|
| scanning range Sd | 20 … 1000 mm |
| scanning range close limit Sdc | 20 … 1000 mm |
| scanning range far limit Sde | 20 … 1000 mm |
| repeat accuracy | < 0,5 mm |
| resolution | < 0,3 mm |
| response time ton | < 40 ms |
| release time toff | < 40 ms |
| temperature drift | < 2 % of distance to target So |
| power-up drift | compensated after 15 min. |
| sonic frequency | 200 kHz |
| adjustment | qTeach, line-Teach |
| alignment aid | light indicator flashing |
| 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. | 35 mA |

| electrical data | |
|---|---|
| output circuit | voltage output |
| output signal | 0 ... 10 V / 10 ... 0 V |
| residual ripple | < 10 % Vs |
| short circuit protection | yes |
| reverse polarity protection | yes, Vs to GND |
| **mechanical data** | |
| type | cylindrical threaded |
| housing material | stainless steel (V2A) / TR90 |
| coating active face | PEEK |
| width / diameter | 18 mm |
| height / length | 64 mm |
| connection types | connector M12 5 pin |
| **ambient conditions** | |
| operating temperature | -25 … +65 °C |
| storage temperature | -40 … +75 °C |
| protection class | IP 69 |
| protection class (connection) | IP 67 |

2020-03-26 The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.



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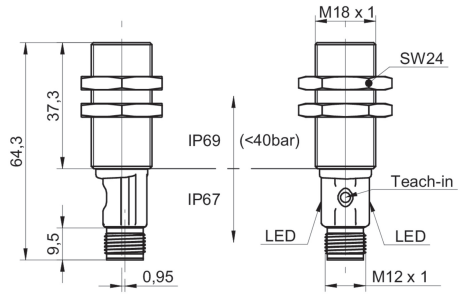
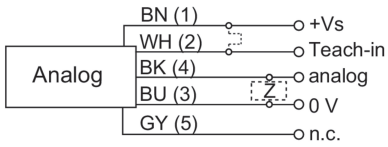
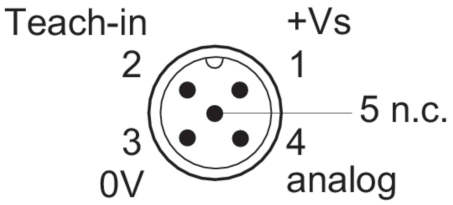
## dimension drawing



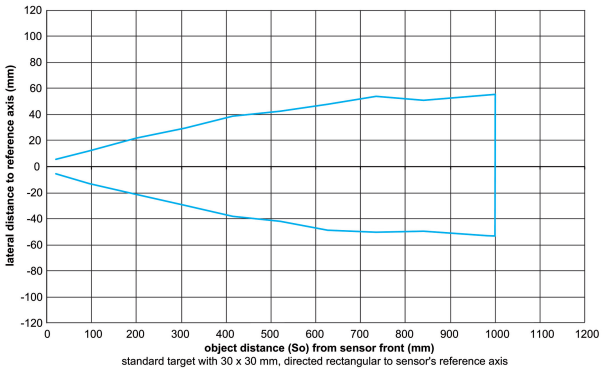

## connection diagram




## pin assignment




## typical sonic cone profile

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