Baumer
Passion for Sensors

Ultrasonic distance measuring sensors

# UF200.DA0-IA1B.72N

Article number: 11708354

## 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 | 20 … 1000 mm |
| Scanning range close limit Sdc | 20 … 1000 mm |
| Scanning range far limit Sde | 20 … 1000 mm |
| Hysteresis typ. | 4 % Sde |
| Repeat accuracy | 0.5 mm |
| Resolution | < 0.3 mm |
| Response time ton/toff standard | < 60 ms |
| Response time ton/toff min | < 24 ms |
| Temperature drift | < 2 % of distance to target Sde |
| Power-up drift | Compensated after 15 min. |
| Sonic frequency | 220 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 |

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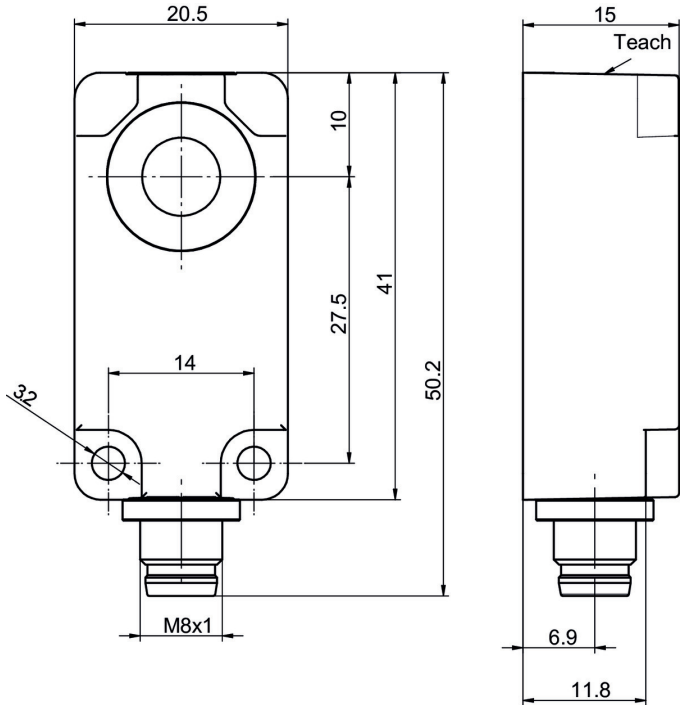
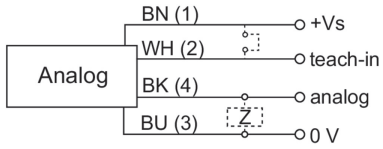
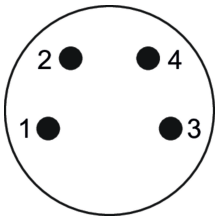
## Dimension drawing



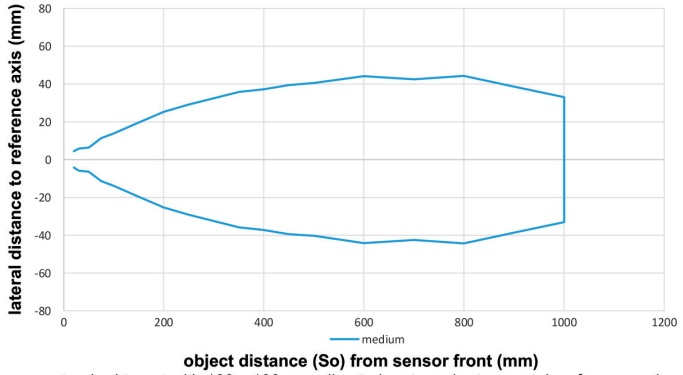

## Connection diagram




## Pin assignment




## Typical sonic cone profile




**object distance (So) from sensor front (mm)**
standard target with 100 x 100 mm, directed rectangular to sensor's reference axis