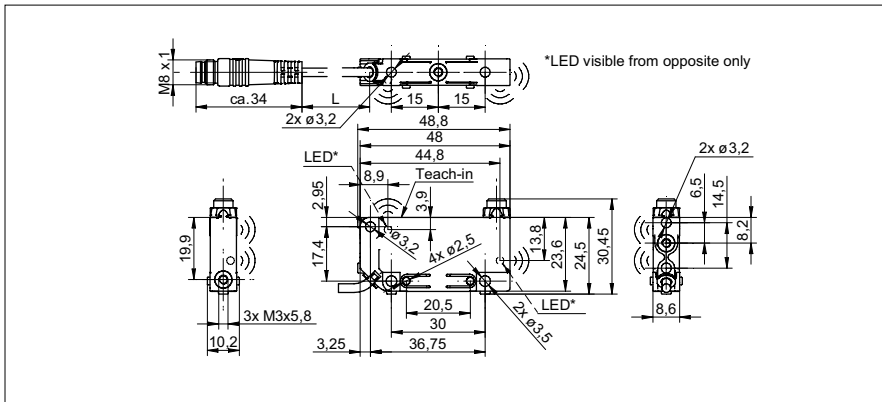


# Ultrasonic distance measuring sensors

## UNDK 09G8914/KS35A/IO

### dimension drawing



### general data

|                                 |                                |
|---------------------------------|--------------------------------|
| scanning range Sd               | 30 ... 200 mm                  |
| scanning range close limit Sdc  | 30 ... 200 mm                  |
| scanning range far limit Sde    | 30 ... 200 mm                  |
| repeat accuracy                 | < 0,5 mm                       |
| repeat accuracy (filter active) | < 0,1 mm                       |
| resolution                      | < 0,3 mm                       |
| resolution (filter active)      | < 0,1 mm                       |
| response time ton               | < 7 ms                         |
| temperature drift               | < 2 % of distance to target So |
| sonic frequency                 | 380 kHz                        |
| adjustment                      | Teach-in and IO-Link           |
| alignment aid                   | target indication flashing     |
| light indicator                 | green LED / red LED            |

### electrical data

|                                    |                     |
|------------------------------------|---------------------|
| voltage supply range +Vs           | 18 ... 30 VDC       |
| current consumption max. (no load) | 35 mA               |
| output circuit                     | push-pull / IO-Link |
| baud rate                          | 38400               |
| short circuit protection           | yes                 |
| reverse polarity protection        | yes                 |

### mechanical data

|                  |                                |
|------------------|--------------------------------|
| type             | rectangular                    |
| housing material | PA 12                          |
| width / diameter | 8,6 mm                         |
| height / length  | 48,8 mm                        |
| depth            | 30,5 mm                        |
| connection types | flylead connector M8, L=200 mm |

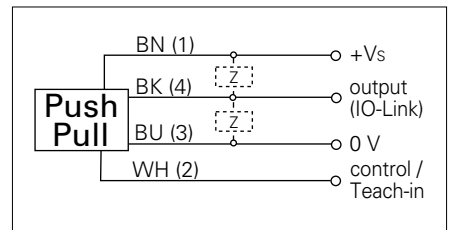
### ambient conditions

|                       |              |
|-----------------------|--------------|
| operating temperature | 0 ... +60 °C |
| protection class      | IP 67        |

### photo



### connection diagram



IO-Link

UL.eps

- IO-Link: Measuring range, switching window, absolute/relative teach-in, service status, object presence, temperature compensation on/off

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typical sonic cone profile

