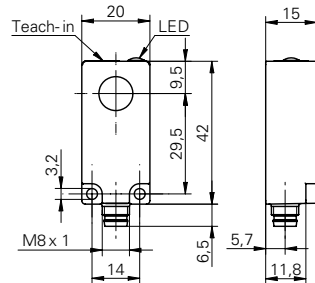


## Ultrasonic retro-reflective sensors

## URDK 20N6912/S35A

## dimension drawing



## general data

|                                             |                         |
|---------------------------------------------|-------------------------|
| sensing range sd                            | 0 ... 400 mm            |
| reflector position Sde                      | 100 ... 400 mm          |
| adjusting range reflector (operating range) | $\pm 2,5 \%$ Sde        |
| adjusting range reflector (limit range)     | $\pm 5 \%$ Sde          |
| repeatability                               | < 1,5 mm                |
| alignment aid                               | target display flashing |
| adjustment                                  | Teach-in                |
| temperature drift                           | < 2 % Sde               |
| response time ton                           | < 25 ms                 |
| release time toff                           | < 25 ms                 |
| sonic frequency                             | 290 kHz                 |
| output indicator                            | LED green               |

## electrical data

|                             |                        |
|-----------------------------|------------------------|
| voltage supply range +Vs    | 12 ... 30 VDC          |
| current consumption max.    | 35 mA                  |
| output circuit              | NPN make function (NO) |
| output current              | < 200 mA               |
| voltage drop Vd             | < 2 VDC                |
| residual ripple             | < 10 % Vs              |
| short circuit protection    | yes                    |
| reverse polarity protection | yes                    |

## mechanical data

|                  |              |
|------------------|--------------|
| type             | rectangular  |
| housing material | polyester    |
| width / diameter | 20 mm        |
| height / length  | 42 mm        |
| depth            | 15 mm        |
| connection types | connector M8 |

## ambient conditions

|                       |                |
|-----------------------|----------------|
| operating temperature | -10 ... +60 °C |
| protection class      | IP 67          |

## photo



## connection diagram

