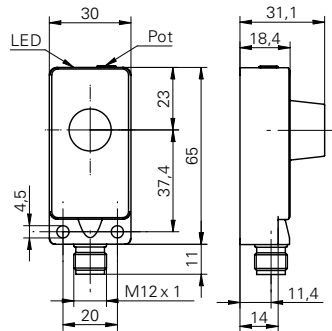


## Ultrasonic retro-reflective sensors

## URDK 30N1703/S14

## dimension drawing



## general data

|                                             |                         |
|---------------------------------------------|-------------------------|
| sensing range sd                            | 0 ... 1000 mm           |
| reflector position Sde                      | 200 ... 1000 mm         |
| adjusting range reflector (operating range) | $\pm 2,5 \%$ Sde        |
| adjusting range reflector (limit range)     | $\pm 5 \%$ Sde          |
| repeatability                               | < 3 mm                  |
| alignment aid                               | target display flashing |
| adjustment                                  | potentiometer           |
| temperature drift                           | < 2 % Sde               |
| synchronization                             | yes                     |
| multiplex version                           | on request              |
| response time ton (sync on)                 | < 50 ms                 |
| release time toff (sync on)                 | < 50 ms                 |
| sonic frequency                             | 240 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 / die-cast zinc |
| width / diameter | 30 mm                     |
| height / length  | 65 mm                     |
| depth            | 31 mm                     |
| connection types | connector M12             |

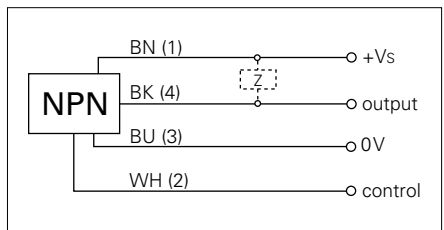
## ambient conditions

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

## photo



## connection diagram



- detects sound absorbing objects
- no blind spot area for objects > 30 mm