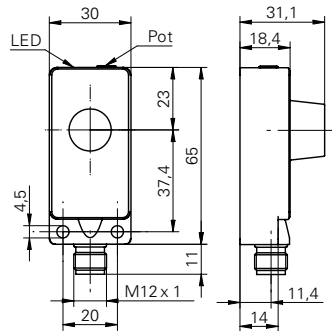


## Ultrasonic proximity sensors

## UNDK 30 (Sd = 1000 mm)

sample drawing



## general data

|                              |                            |
|------------------------------|----------------------------|
| scanning range sd            | 100 ... 1000 mm            |
| scanning range far limit Sde | 100 ... 1000 mm            |
| hysteresis typ.              | 4 % Sde                    |
| repeat accuracy              | < 0,5 mm                   |
| synchronization              | yes                        |
| multiplex version            | on request                 |
| temperature drift            | < 0,1 % Sde/K              |
| response time ton (sync on)  | < 50 ms                    |
| release time toff (sync on)  | < 50 ms                    |
| sonic frequency              | 240 kHz                    |
| adjustment                   | potentiometer              |
| alignment aid                | target indication flashing |
| output indicator             | LED green                  |

sample picture



## electrical data

|                                    |               |
|------------------------------------|---------------|
| voltage supply range +Vs           | 12 ... 30 VDC |
| current consumption max. (no load) | 35 mA         |
| 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                     |

## ambient conditions

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

**Ultrasonic proximity sensors****UNDK 30 (Sd = 1000 mm)**

| order reference         | output circuit          | connection types |
|-------------------------|-------------------------|------------------|
| <b>UNDK 30N1703</b>     | NPN make function (NO)  | cable, 2 m       |
| <b>UNDK 30N1703/S14</b> | NPN make function (NO)  | connector M12    |
| <b>UNDK 30N3703</b>     | NPN break function (NC) | cable, 2 m       |
| <b>UNDK 30N3703/S14</b> | NPN break function (NC) | connector M12    |
| <b>UNDK 30P1703</b>     | PNP make function (NO)  | cable, 2 m       |
| <b>UNDK 30P1703/S14</b> | PNP make function (NO)  | connector M12    |
| <b>UNDK 30P3703</b>     | PNP break function (NC) | cable, 2 m       |
| <b>UNDK 30P3703/S14</b> | PNP break function (NC) | connector M12    |