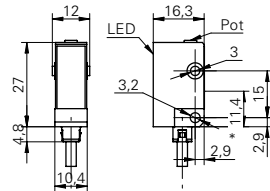


Diffuse contrast sensors

OZDK 10N5101

dimension drawing



* emitter axis

general data

| | |
|---|-------------------------|
| type | diffuse contrast sensor |
| light source | pulsed red laser diode |
| sensing distance Tw | 3 ... 150 mm |
| optimum operating distance | 20 ... 40 mm |
| detectable remission difference (on grey) | > 8 % |
| repeat accuracy | < 0,2 mm at laser focus |
| power on indication | LED green |
| light indicator | LED yellow |
| sensitivity adjustment | potentiometer, 5 turn |
| laser class | 2 |
| distance to focus | 40 mm |
| wave length | 650 nm |

electrical data

| | |
|------------------------------------|----------------------|
| response time / release time | < 0,05 ms |
| voltage supply range +Vs | 10 ... 30 VDC |
| current consumption max. (no load) | 50 mA |
| current consumption typ. | 40 mA |
| voltage drop Vd | < 1,8 VDC |
| output function | light / dark operate |
| output circuit | NPN |
| output current | < 100 mA |
| short circuit protection | yes |
| reverse polarity protection | yes |

mechanical data

| | |
|------------------|------------------|
| width / diameter | 10,4 mm |
| height / length | 27 mm |
| depth | 16,3 mm |
| type | rectangular |
| housing material | plastic (ASA) |
| front (optics) | PMMA |
| connection types | cable 4 pin, 2 m |

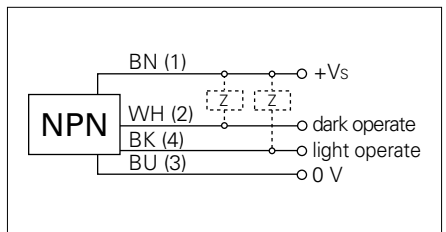
ambient conditions

| | |
|-----------------------|----------------|
| operating temperature | -10 ... +50 °C |
| protection class | IP 65 |

photo



connection diagram



laser warning

Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice No. 50, dated June 24, 2007

