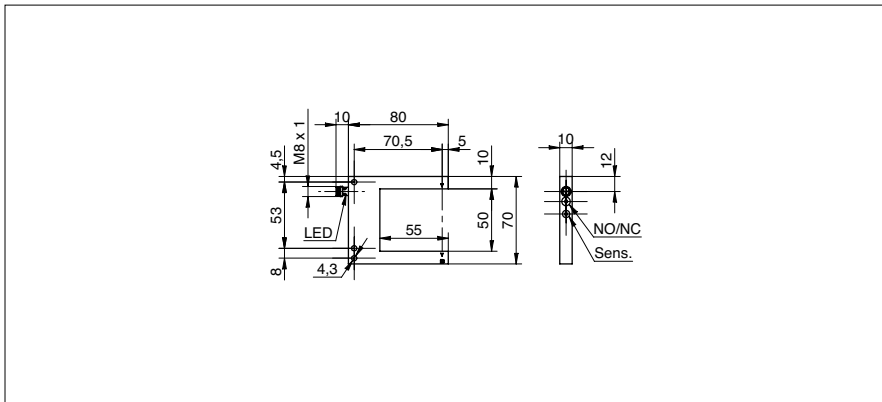


**Fork and angle sensors**

**OGUM 050P8002/S35L**

**dimension drawing**



**general data**

|                        |                        |
|------------------------|------------------------|
| type                   | through beam sensor    |
| object size            | > 0,1 mm               |
| repeat accuracy        | < 0,02 mm              |
| hysteresis             | < 0,05 mm              |
| ambient light immunity | < 5 kLux               |
| sensitivity adjustment | potentiometer, 270°    |
| light source           | pulsed red laser diode |
| wave length            | 670 nm                 |
| laser class            | 1                      |
| light indicator        | LED yellow             |

**electrical data**

|                                    |                                 |
|------------------------------------|---------------------------------|
| response time / release time       | < 0,166 ms                      |
| switching frequency                | < 3 kHz                         |
| voltage supply range +Vs           | 10 ... 30 VDC                   |
| current consumption max. (no load) | 30 mA                           |
| output function                    | light / dark operate switchable |
| output circuit                     | PNP                             |
| voltage drop Vd                    | < 2,8 VDC                       |
| output current                     | < 200 mA                        |
| short circuit protection           | yes                             |
| reverse polarity protection        | yes                             |

**mechanical data**

|                   |                     |
|-------------------|---------------------|
| width / diameter  | 70 mm               |
| fork width Sb     | 50 mm               |
| height / length   | 80 mm               |
| penetration depth | 55 mm               |
| depth             | 10 mm               |
| type              | U profile           |
| housing material  | die-cast zinc       |
| connection types  | connector M8, 3 pin |

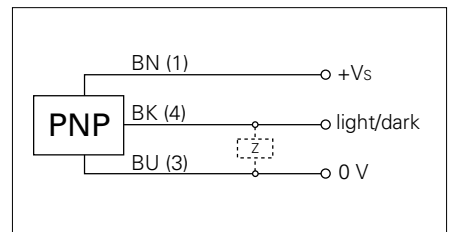
**ambient conditions**

|                       |              |
|-----------------------|--------------|
| operating temperature | 5 ... +45 °C |
| protection class      | IP 67        |

**photo**



**connection diagram**



**laser warning**

**CLASS 1 LASER PRODUCT**

IEC 60825-1/2014  
Complies with 21 CFR 1040.10 and 1040.11  
except for deviations pursuant to laser  
notice No. 50, dated June 24, 2007



• accessories: PNP/NPN - converter