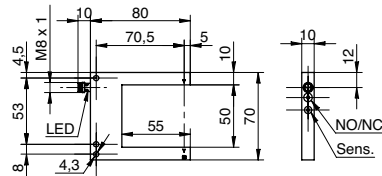


## Fork and angle sensors

## FGUM 050P8001/S35L

### dimension drawing



### general data

|                        |                     |
|------------------------|---------------------|
| type                   | through beam sensor |
| object size            | > 0,5 mm            |
| repeat accuracy        | < 0,04 mm           |
| hysteresis             | < 0,25 mm           |
| ambient light immunity | < 80 kLux           |
| sensitivity adjustment | potentiometer, 270° |
| light source           | pulsed red LED      |
| wave length            | 660 nm              |
| light indicator        | LED yellow          |

### electrical data

|                                    |                                 |
|------------------------------------|---------------------------------|
| response time / release time       | < 0,125 ms                      |
| switching frequency                | < 4 kHz                         |
| voltage supply range +Vs           | 10 ... 35 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 |

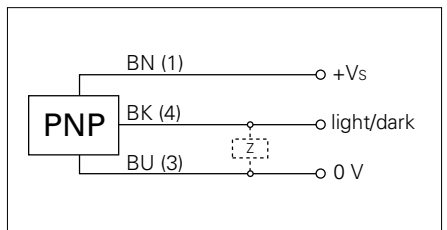
### ambient conditions

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

### photo



### connection diagram



- accessories: PNP/NPN - converter