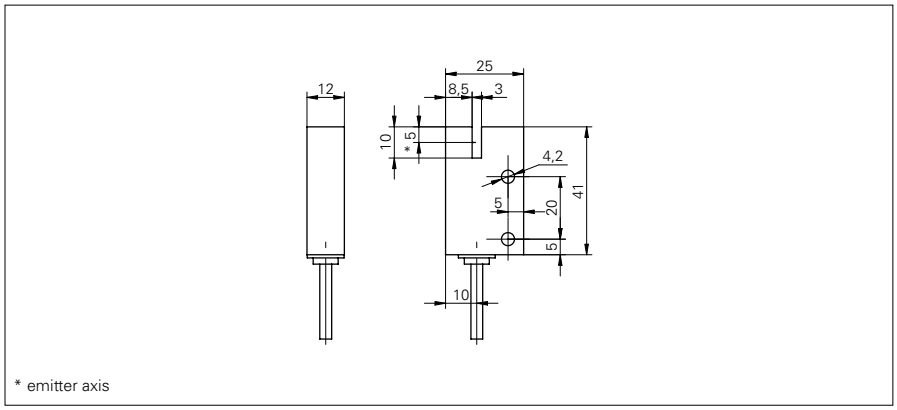
# Fork and angle sensors

# FEG 12.24.45

## dimension drawing




* emitter axis

## general data

| | |
|---|---|
| type | through beam sensor |
| object size | > 0,8 mm |
| repeat accuracy | < 0,01 mm |
| hysteresis | < 0,1 mm |
| sensitivity adjustment | no |
| light source | non-pulsed infrared diode |
| wave length | 935 nm |

## electrical data

| | |
|---|---|
| response time / release time | < 0,01 ms |
| switching frequency | < 50 kHz |
| voltage supply range +Vs | 4,5 ... 30 VDC |
| current consumption max. (no load) | 24 mA |
| output function | light operate |
| output circuit | PNP |
| voltage drop Vd | < 1 VDC |
| output current | < 100 mA |
| short circuit protection | no |
| reverse polarity protection | yes, Vs to GND |

## mechanical data

| | |
|---|---|
| width / diameter | 12 mm |
| fork width Sb | 3 mm |
| height / length | 41 mm |
| penetration depth | 10 mm |
| depth | 25 mm |
| type | rectangular |
| housing material | brass nickel plated |
| connection types | cable 3 pin, 2 m |

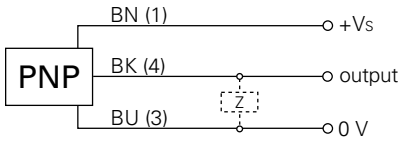
## ambient conditions

| | |
|---|---|
| operating temperature | -25 ... +65 °C |
| protection class | IP 65 |

## photo



## connection diagram




- accessories: pulse disk IPS 70
- pulse rate: 1, 60, 100