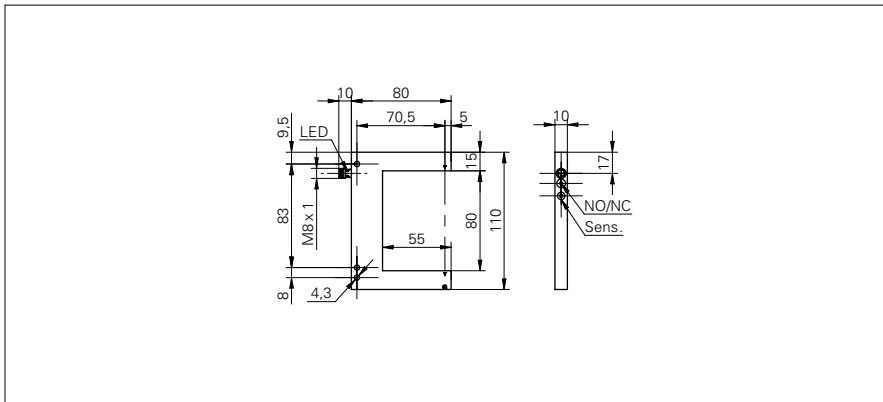


**Fork and angle sensors**

**OGUM 080P8001/S35L**

**dimension drawing**



**general data**

type	through beam sensor
object size	> 0,05 mm
repeat accuracy	< 0,01 mm
hysteresis	< 0,02 mm
ambient light immunity	< 100 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	110 mm
fork width Sb	80 mm
height / length	80 mm
penetration depth	55 mm
depth	10 mm
type	U profile
housing material	aluminum anodized
connection types	connector M8, 3 pin

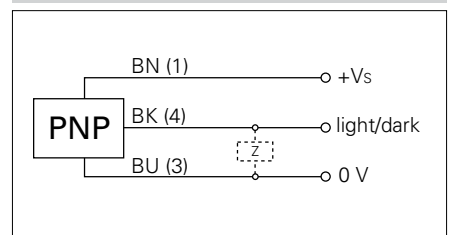
**ambient conditions**

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