diffuse reflection

design	**13.4 x 48.2 x 40mm**	
product	diffuse reflection laser	**50 ... 550mm**

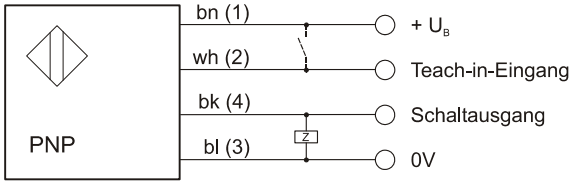
- ✓ **robust aluminium housing**
- ✓ **laser protection class 2**
- ✓ **4-pin M8-connector**

background suppression
teach-in

technical data

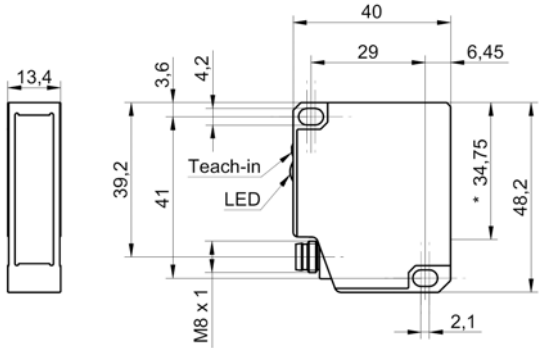
current consumption	≤ 80mA
voltage drop	≤ 2.8V
operating voltage U_B	12 … 28V DC, reverse polarity protected
output current	< 100mA
switching output	pnp, no/nc teach-in, short circuit protected
sensing range	50 … 550mm (via teach button or external teach input)
light indicator	LED red
power on indication	LED green
light source	red laser diode, 675nm, pulsed
light beam	Ø 1mm, point
response time	< 5ms
release time	< 15ms
housing material	aluminium
optics	glass
system of protection	IP 67 (EN 60529)
ambiente temperature	0°C … +50°C
electrical connection	M8-connector 4pin

electrical connection



bn=braun, wh=weiß, bk=schwarz, bl=blau
Klemmenbezeichnung der Kabeldose in Klammern

dim. drawing



optical sensor-laser

diffuse reflection

Static Teach-in procedure, for non moving parts

1. Set the sensor into static teach-in mode: press the button approx. 2 sec until LED (red) is flashing

2.Set the object to the desired ON-position and press the button shortly

3.Set the object to the desired OFF-position and press the button shortly

4.The sensor is set to dark operate by interchanging the order of items 2 and 3, otherwise it is set to light-on mode.

5. Shortly press the teach-in button! On successful teach-in, the red LED light up for about 2 seconds. The red LED flashes quickly for 2 seconds if the difference between the teaching positions is too low. The switching point is nevertheless set in this case to the center position.

Dynamic Teach-in procedure, for moving and small objects

1. Set the sensor into dynamic teach-in mode: press the button approx. 5 sec until LED (red) flashing changes from slow to fast. After releasing the button, the sensor starts immediately to sense the max. and min. values.

2.Stop the teach-in procedure: press the button shortly

3.To change the output function from dark-on mode (standard) to dark operate: press the button within 5 sec after "stop the teach-in procedure" shortly

4. The switching output now works as a normally open (light-on mode). If the unit is to operate as normally closed (dark-on mode), press the teach-in button within 5 seconds after the teach-in process shortly!

Notes: It is possible to use the external teach-in input (white wire, pin 2) instead of the teach-in button. Connect instead of the button press the teach-in input to + UB!

Within 5 minutes after power-on, the sensors can be taught via the button or the teach-in wire. After 5 minutes the teach-in button will be locked prevent accidental adjustment. The teach-in wire is active all the time.

article-no. **PT490370**

suitable universal mounting **AY000096**

To connector devices, we like to supply the matching cable socket, eg VK200371. Please refer to the catalog in chapter 14, data sheet “cable sockets ipf -*SENSORFLEX*®”.

Warning: Never use these devices in applications where the safety of a person depends on their functionality.

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