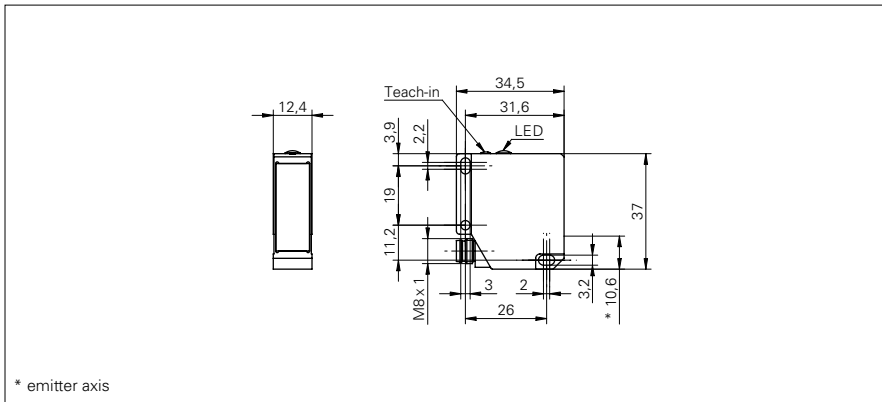


**Difference sensors**

**OBDM 12 (min./max. analysis)**

**sample drawing**



\* emitter axis

**general data**

type	min./max. analysis
sensing distance Tw	16 ... 120 mm
Teach-in range min.	> 0,3 mm
adjustment	Teach-in
power on indication	LED green
output indicator	LED red
light source	pulsed red laser diode
laser class	2
wave length	650 nm
beam diameter	0,5 ... 0,2 mm

**electrical data**

response time	< 1 ms
voltage supply range +Vs	12 ... 28 VDC
current consumption max. (no load)	80 mA
current consumption typ.	40 mA
output current	< 100 mA
voltage drop Vd	< 2,8 VDC
reverse polarity protection	yes, Vs to GND
short circuit protection	yes

**mechanical data**

width / diameter	12,4 mm
height / length	37 mm
depth	34,5 mm
type	rectangular
front (optics)	glass
housing material	die-cast zinc
connection types	connector M8 4 pin

**ambient conditions**

operating temperature	0 ... +50 °C
protection class	IP 67

**order reference**

<b>OBDM 12N6920/S35A</b>	NPN
<b>OBDM 12P6920/S35A</b>	PNP

**output circuit**

NPN
PNP

**sample picture**



**laser warning**

