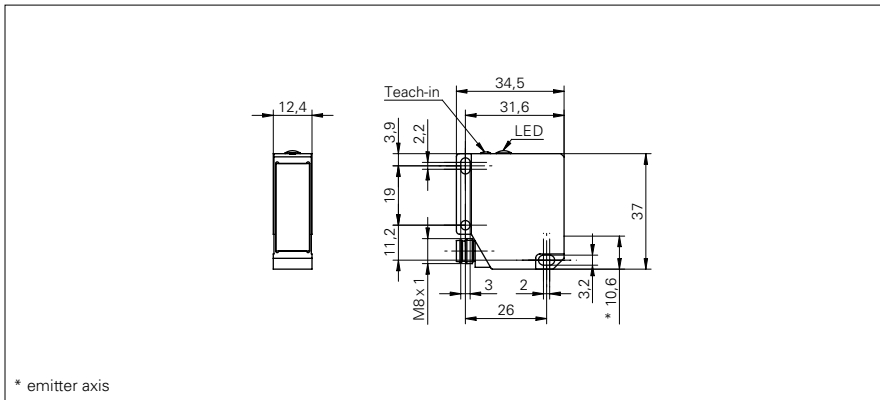


Diffuse sensors with background suppression

OHDM 12 (Laser)

sample drawing



general data

type	background suppression
light source	pulsed red laser diode
sensing distance T_w	17 ... 120 mm
sensing range T_b (at T_w max.)	16 ... 120 mm
sensing range T_b (at T_w min.)	16 ... 17 mm
light indicator	LED red
power on indication	LED green
sensing distance adjustment	Teach-in
laser class	2
wave length	675 nm
beam diameter	0,9 ... 0,5 mm

electrical data

response time	< 1 ms
release time	< 2,7 ms
voltage supply range +Vs	12 ... 28 VDC
current consumption max.	80 mA
current consumption typ.	40 mA
voltage drop V_d	< 2,8 VDC
output function	light / dark operate
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes, Vs to GND

mechanical data

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

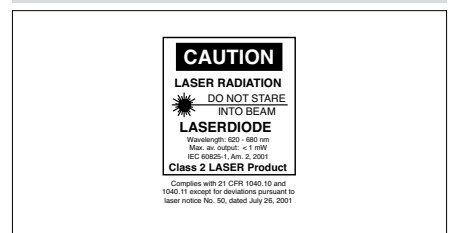
ambient conditions

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

sample picture



laser warning



**Diffuse sensors with
background suppression****OHDM 12 (Laser)**

order reference	output circuit
OHDM 12N6901/S35A	NPN
OHDM 12P6901/S35A	PNP