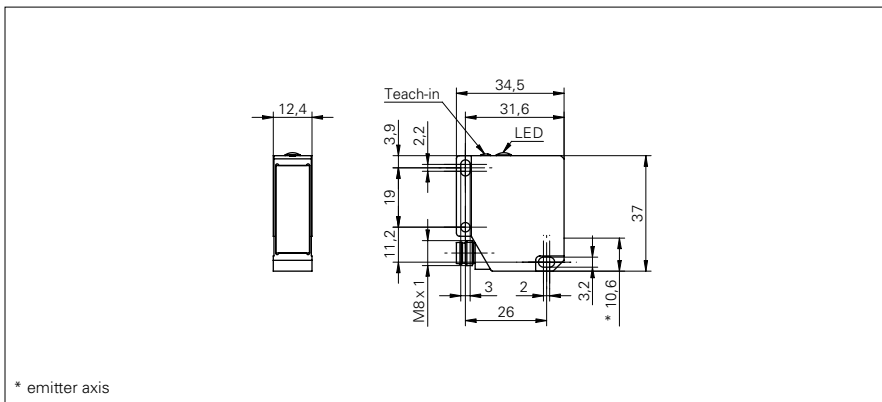


Difference sensors

OBDM 12 (step analysis)

sample drawing



general data

type	step analysis
sensing distance T_w	16 ... 120 mm
Teach-in range min.	> 0,2 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

electrical data

response time	< 5 ms
voltage supply range +Vs	12 ... 28 VDC
current consumption max.	80 mA
current consumption typ.	40 mA
output current	< 100 mA
output pulse length	10 ms
voltage drop V_d	< 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

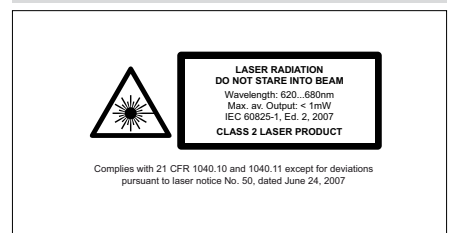
ambient conditions

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

sample picture



laser warning



Difference sensors**OBDM 12 (step analysis)**

order reference	output circuit
OBDM 12N6910/S35A	NPN
OBDM 12P6910/S35A	PNP