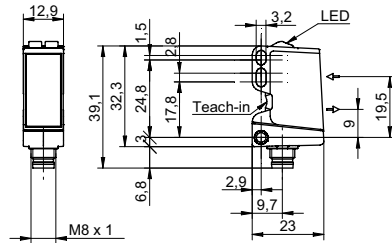


Diffuse sensors with background suppression

O300.GL (Laser)

sample drawing



general data

type	background suppression
light source	pulsed red laser diode
sensing distance T_w	30 ... 250 mm
sensing range T_b	15 ... 250 mm
repeat accuracy	< 0,1 mm at laser focus
power on indication	LED green
light indicator	LED yellow
laser class	1
distance to focus	80 mm
wave length	655 nm
suppression of reciprocal influence	yes
alignment optical axis	< 2°

electrical data

response time / release time	< 0,25 ms
voltage supply range +Vs	10 ... 30 VDC
current consumption max. (no load)	40 mA
current consumption typ.	35 mA
voltage drop V_d	< 3 VDC
output function	light / dark operate
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes

mechanical data

width / diameter	12,9 mm
height / length	32,3 mm
depth	23 mm
type	rectangular
housing material	plastic (ASA, PMMA)
front (optics)	PMMA

ambient conditions

operating temperature	-25 ... +60 °C
protection class	IP 67

sample picture



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

**Diffuse sensors with
background suppression****O300.GL (Laser)**

order reference	connection types	output circuit	sensing distance adjustment
O300.GL-11171740	cable 4 pin, 2 m	push-pull	Teach-in and IO-Link
O300.GL-11171741	connector M8 4 pin	push-pull	Teach-in and IO-Link
O300.GL-11171745	cable 4 pin, 2 m	NPN complementary	qTeach
O300.GL-11171742	connector M8 4 pin	NPN complementary	qTeach
O300.GL-11171747	cable 4 pin, 2 m	PNP complementary	qTeach
O300.GL-11171748	connector M8 4 pin	PNP complementary	qTeach