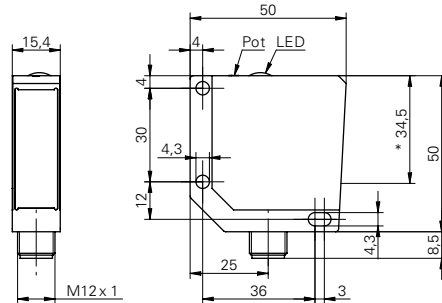


Diffuse sensors with background suppression

OHDM 16P5001/S14

dimension drawing



* emitter axis

general data

type	background suppression
light source	pulsed red laser diode
sensing distance T_w	25 ... 300 mm
sensing range T_b (at T_w max.)	40 ... 300 mm
sensing range T_b (at T_w min.)	5 ... 25 mm
repeat accuracy	< 0,1 mm at laser focus
output indicator	LED yellow
sensing distance adjustment	mechanical, 8 turn
laser class	2
distance to focus	80 mm
wave length	650 nm
suppression of reciprocal influence	yes

electrical data

response time / release time	< 0,6 ms
voltage supply range +Vs	10 ... 30 VDC
current consumption max. (no load)	35 mA
current consumption typ.	25 mA
voltage drop V_d	< 2 VDC
output function	light / dark operate
output circuit	PNP
output current	< 200 mA
short circuit protection	yes
reverse polarity protection	yes

mechanical data

width / diameter	15,4 mm
height / length	50 mm
depth	50 mm
type	rectangular
housing material	die-cast zinc
front (optics)	glass
connection types	connector M12 4 pin

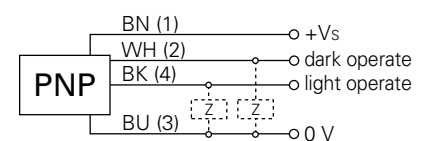
ambient conditions

operating temperature	-10 ... +50 °C
protection class	IP 67

photo



connection diagram



laser warning



LASER RADIATION
DO NOT STARE INTO BEAM
Wavelength: 620 ... 680nm
Max. av. Output: < 1mW
IEC 60825-1, Ed. 2, 2007
CLASS 2 LASER PRODUCT

Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice No. 50, dated June 24, 2007