Through beam laser sensors Series 10

	Emitter	Receiver
	Sb 8,0 m	Sb 8,0 m

Preferential types

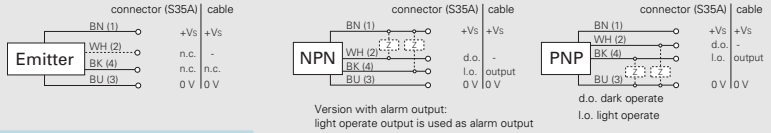
		cable	connector	cable	connector
Emitter		**OSDK 10D9001**	**OSDK 10D9001/S35A**		
PNP	light operate			**OEDK 10P1101**	
	dark operate			**OEDK 10P3101**	
	light/dark operate				**OEDK 10P5101/S35A**
	light operate			**OEDK 10N1101**	
	dark operate			**OEDK 10N3101**	
	light/dark operate				**OEDK 10N5101/S35A**

technical data				
nominal range Sn	-		10 m	
actual range Sb	-		8,0 m	
curve	-		excess gain curve	
beam focal point	parallel beam		-	
power indicator	green LED		-	
output indicator	-		yellow LED	
Alignment aid/soiled lens indicator	-		green flashing LED	
light source	pulsed red laser diode		-	
wave length	675 nm		-	
laser class	2		-	
voltage supply range	10 - 30 VDC		10 - 30 VDC	
max. supply current average value / peak value	40 mA / 50 mA		15 mA / 16 mA	
max. switching current	-		100 mA	
voltage drop	-		≤ 1,8 VDC	
response time / release time	-		≤ 0,2 ms	
sensitivity adjustment	-		270° pot	
short circuit protection	-		yes	
reverse polarity protection	yes		yes	
temperature range	+10...50 °C		-25...+65°C	
housing material	Acrylnitril / Styrol / Acrylester (ASA)		Acrylnitril / Styrol / Acrylester (ASA)	
protection class	IP 65	IP 67	IP 65	IP 67

- **Wide range**
- **Sensitivity adjustable**
- **Alignment aid / soiled lens indicator**
- **Visible red light for alignment aid**

Series 10

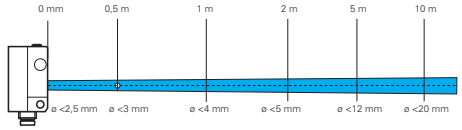
connection diagram



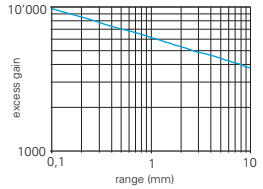
output state

	object present	object not present
light operate	LED ⊗ PNP =LOW NPN=HIGH	LED ☼ PNP =HIGH NPN=LOW
dark operate	LED ⊗ PNP =HIGH NPN=LOW	LED ☼ PNP =LOW NPN=HIGH

beam diameter chart **OSDM 10D9x01**



excess gain curve



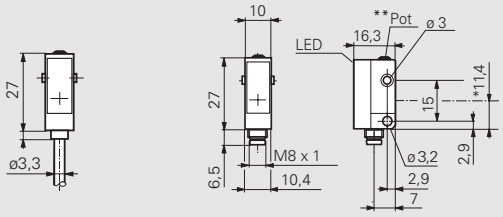
connectors

ESW 31AH0200	4 pin	2 m PUR halogen-free
ESG 32AH0200	4 pin	2 m PUR halogen-free

for details see accessories section

accessories (included)

mounting bracket (cable type)	114501
mounting bracket (connector type)	133792



* emitter and receiver axis 21,5 mm

** Pot only on receiver

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Range Sb 8,0 m

Sensitivity adjustment

Alignment aid

Visible red light

CAUTION
LASER RADIATION
DO NOT STARE INTO BEAM
LASERDIODE
Wavelength: 630 - 680 nm
Max. Output: < 1 mW
Class 2 LASER Product

IEC 825-1/1996
21CFR 1040.10