chanhvinh.com

Diffuse laser sensors Series 10

Background suppression

Tw 130 mm



- **Subminiature design**
- **High repeatability**
- **Sensing point < 0,2 mm at 40 mm**
- **Visible red light**
- **Fully adjustable sensing distance**

Series 10

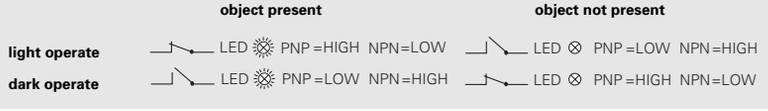
		cable	connector
PNP	light operate		
	dark operate		
	light/dark operate	**OHDK 10P5101**	**OHDK 10P5101/S35A**
NPN	light operate		
	dark operate		
	light/dark operate	**OHDK 10N5101**	**OHDK 10N5101/S35A**

technical data		
sensing distance adjustable Tw	20...130 mm	20...130 mm
sensing distance Tw (on Kodak white)	3...130 mm	3...130 mm
beam focal point	40 mm	40 mm
repeatability (lateral approach)	< 0,2 mm at laser focus	< 0,2 mm at laser focus
output indicator	yellow LED	yellow LED
power indicator	green LED	green LED
light source	pulsed red laser diode	pulsed red laser diode
wave length	675 nm	675 nm
laser class	2	2
voltage supply range	10 - 30 VDC	10 - 30 VDC
max. supply current average value / peak value	40 mA / 50 mA	40 mA / 50 mA
max. switching current	100 mA	100 mA
voltage drop	≤ 1,8 VDC	≤ 1,8 VDC
response time / release time	≤ 0,5 ms	≤ 0,5 ms
sensitivity adjustment	5 turn mechanical adjustment	5 turn mechanical adjustment
short circuit protection	yes	yes
reverse polarity protection	yes	yes
temperature range	-10...+50 °C	-10...+50 °C
housing material	Acrylnitril / Styrol / Acrylester (ASA)	Acrylnitril / Styrol / Acrylester (ASA)
protection class	IP 65	IP 67

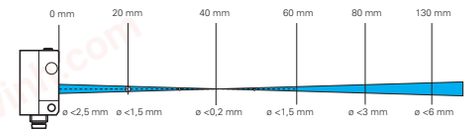
connection diagrams



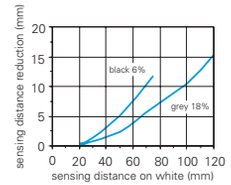
output state



beam diameter chart



sensing distance diagram



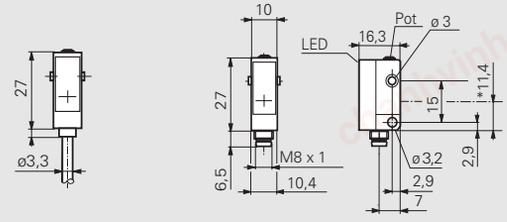
connectors

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

accessories (included)

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

for details see accessories section



*emitter axis

Tw adjustable up to 130 mm

Background suppression

Visible red light



IEC 825-1/1996
21CFR 1040.10

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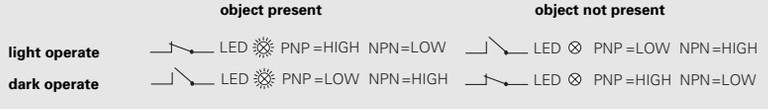
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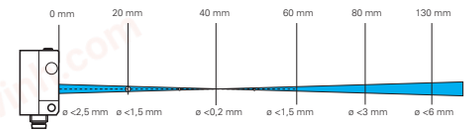
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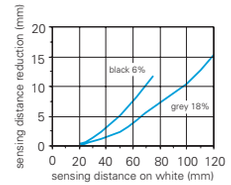
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beam diameter chart



sensing distance diagram



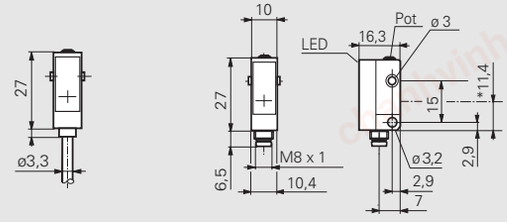
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