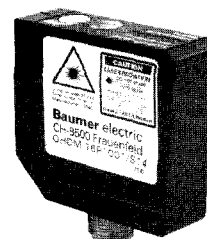
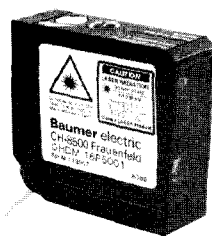


# Diffuse laser sensors Series 16

Tw 25...300 mm



## Preferential types

<b>PNP</b>	light operate	<b>OHDM 16P5001</b> ✕	<b>OHDM 16P5012</b>	<b>OHDM 16P5001/S14</b>	<b>OHDM 16P5012/S14</b>
	dark operate				
<b>NPN</b>	light/dark operate	<b>OHDM 16N5001</b>	<b>OHDM 16N5001/S14</b>		
	light operate				
	dark operate				
	light/dark operate				

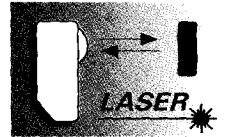
### technical data

sensing distance adjustable Tw	25...300 mm	25...120 mm	25...300 mm	25...120 mm
sensing range on Kodak white	5...25 / 35...300 mm	5...25 / 30...120 mm	5...25 / 35...300 mm	5...25 / 30...120 mm
beam focal point	80 mm	60 mm	80 mm	60 mm
characteristics	sensing distance diagram		sensing distance diagram	
repeatability (lateral approach)	< 0,1 mm at focal point		< 0,1 mm at focal point	
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	60 mA / 75 mA		60 mA / 75 mA	
max. switching current	200 mA		200 mA	
voltage drop	≤ 1,8 VDC		≤ 1,8 VDC	
response time / release time	≤ 0,6 ms	≤ 0,1 ms	≤ 0,6 ms	≤ 0,1 ms
sensitivity adjustment	8 turn mechanical pot		8 turn mechanical pot	
short circuit protection	yes		yes	
reverse polarity protection	yes		yes	
temperature range	-10...+50 °C		-10...+50 °C	
housing material	die-cast zinc		die-cast zinc	
protection class	IP 67		IP 67	

<b>Special type</b>	light/dark operate	<b>OHDM 16P5002</b>	<b>OHDM 16P5002/S14</b>	<b>OHDM 16P5010/S14</b>
	PNP			

### technical data complementary

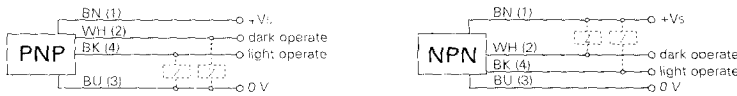
sensing distance			86 ± 4 mm fixed
sensing distance on Kodak white			25...82 mm
beam focal point	40 mm	40 mm	80 mm
response time / release time			≤ 0,6 ms
protection class			IP 67, resistant against certain cooling and lubrication liquids



# Series 16

- High repeatability
- Laser spot < 0,1 mm
- Sensing distance can be adjusted continuously and accurately
- Suitable for dull, frosted and shiny surfaces
- Special type OHDM 16P5010/S14 for tool break applications

### connection diagram

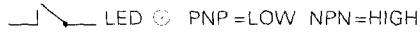


### output state

#### object present

#### object not present

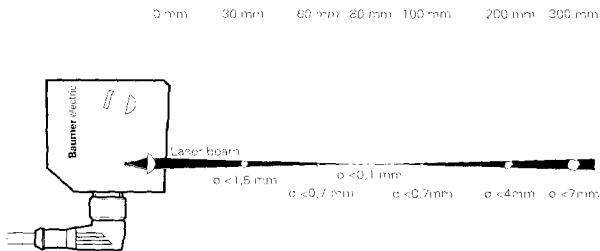
#### light operate



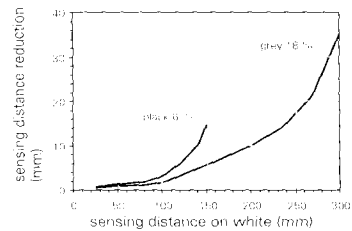
#### dark operate



### beam diameter chart OHDM 16x5001 and OHDM 16x5010



### sensing distance diagram

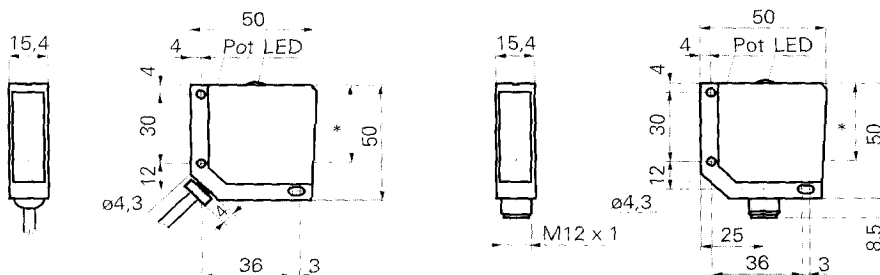


### connectors 4-pin

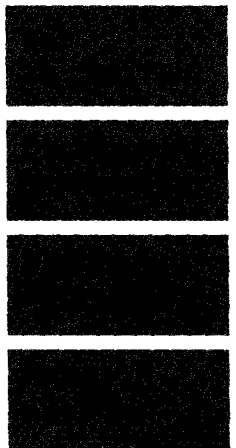
ES 33AP2	right angle	2 m PUR
ES 34AP2	straight	2 m PUR

### accessories

mounting bracket	113917
lens cleaning	
air nozzle bracket	116407



type OHDM 16P5010/S14 without Pot



\* emitter axis 34,5 mm