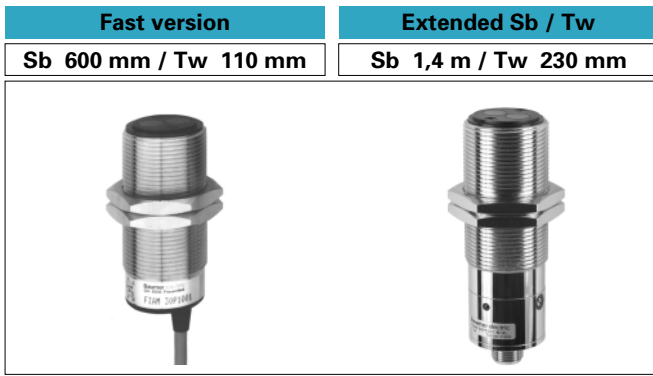


# Fiber optic sensors Series 30



	Fast version		Extended Sb / Tw	
	Sb 600 mm / Tw 110 mm		Sb 1,4 m / Tw 230 mm	
	cable	connector	cable	connector
<b>PNP</b>	light operate			
	dark operate			
	light/dark operate	FZAM 30P5001	FZAM 30P5004	FZAM 30P5004/S14L
<b>NPN</b>	light operate			
	dark operate			
	light/dark operate	FZAM 30N5001	FZAM 30N5004	FZAM 30N5004/S14L

technical data	Fast version	Extended Sb / Tw
actual range Sb (through beam sensors)	600 mm	1,4 m
distance Tw (diffuse sensors)	110 mm	230 mm
output indicator	red LED	red LED
alignment aid / soiled lens indicator	flashing LED	flashing LED
light source / wave length	pulsed infrared LED / 880 nm	pulsed infrared LED / 880 nm
voltage supply range	10 - 40 VDC	10 - 40 VDC
max. supply current average value / peak value	30 mA / 40 mA	33 mA / 50 mA
max. switching current	400 mA	400 mA
voltage drop	≤ 2,5 VDC	≤ 2,5 VDC
response time / release time	≤ 250 μs / ≤ 250 μs	≤ 2,5 ms / ≤ 2,5 ms
sensitivity adjustment	20 turn pot	20 turn pot

short circuit protection	yes	yes
reverse polarity protection	yes	yes
temperature range	0...+65 °C	0...+65 °C
housing material	brass nickel plated	brass nickel plated
protection class	IP 65	IP 65

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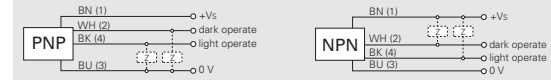
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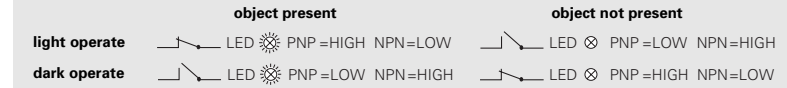

## Series 30

- Diffuse sensors may be combined with reflective and through beam fiber optics
- High speed version (250 μs)
- Large distance and range
- Fully adjustable sensitivity
- Alignment aid / soiled lens indicator (flashing LED)

### connection diagrams



### output states



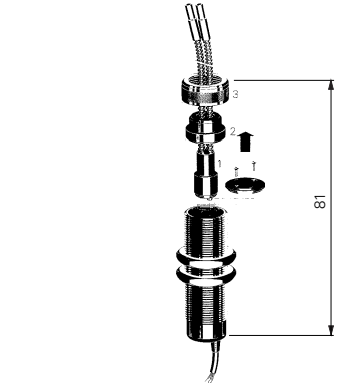
Range Sb 1,4 m

Distance Tw 230 mm

Adjustment aid

Metal housing

A-type fiber optic



### accessories

Please note that when using the 30 mm amplifiers, the adapter and cap nut must be ordered separately.

1 = fiber optic     see fiber optic section  
 2 = adapter         part nr. 102757  
 3 = cap nut         part nr. 102801

### connector

ES 14  
 ES 24  
 ESW 33AH0200    4 pin    2 m PUR halogen-free  
 ESG 34AH0200    4 pin    2 m PUR halogen-free

for details see accessories section

