

Fiber optic sensors Series 18

20-turn potentiometer

Sb 310 mm	Tw 60 mm
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Side-mounted potentiometer

Sb 800 mm	Tw 150 mm
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PNP	light operate
	dark operate
	light/dark operate
NPN	light operate
	dark operate
	light/dark operate

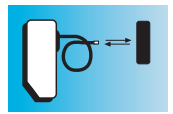
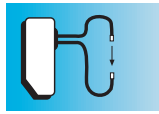
cable
FZAM 18P1155
FZAM 18N1155

cable	connector
FZAM 18P1155	FZAM 18P1155/S14
FZAM 18N1155	FZAM 18N1155/S14

technical data	
actual range Sb (through beam sensors)	310 mm
distance Tw (diffuse sensors)	60 mm
output indicator	yellow LED
alignment aid / soiled lens indicator	flashing LED
light source / wave length	pulsed infrared LED / 880 nm
voltage supply range	10 - 30 VDC
max. supply current average value / peak value	30 mA / 45 mA
max. switching current	200 mA
voltage drop	≤ 1,8 VDC
response time / release time	≤ 0,5 ms / ≤ 0,5 ms
sensitivity adjustment	Pot, 20 turns
short circuit protection	yes
reverse polarity protection	yes
temperature range	-25...+55 °C
housing material	brass nickel plated / polycarbonate
protection class	IP 65

310 mm
60 mm
yellow LED
flashing LED
pulsed infrared LED / 880 nm
10 - 30 VDC
30 mA / 45 mA
200 mA
≤ 1,8 VDC
≤ 0,5 ms / ≤ 0,5 ms
Pot, 20 turns
yes
yes
-25...+55 °C
brass nickel plated / polycarbonate
IP 65

800 mm
150 mm
yellow LED
flashing LED
pulsed infrared diode / 880 nm
10 - 30 VDC
30 mA / 45 mA
200 mA
≤ 1,8 VDC
≤ 1 ms / ≤ 1 ms
by side mounted 270° pot
yes
yes
-25...+55 °C
brass nickel plated / polycarbonate
IP 67



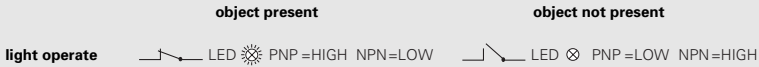
Series 18

- Diffuse sensors may be combined with reflective and through beam fiber optics
- Standard and extended sensing distances
- Fully adjustable sensitivity

connection diagrams



output states



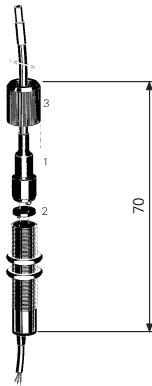
Range
Sb 800 mm

Distance
Tw 150 mm

ton 1,0 ms
ton 0,5 ms

Metal
housing

A-type
fiber optic



accessories

The adjusting plate and cap nut are included with each fiber optic cable.

- 1 = fiber optic see fiber optic section
- 2 = adjusting plate part nr. 101958
- 3 = cap nut part nr. 101480

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

