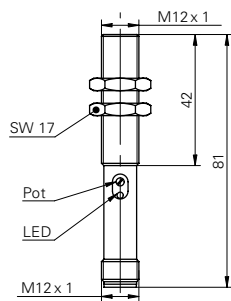


Diffuse sensors with intensity difference

FZAM 12

sample drawing



general data

type	intensity difference
light source	pulsed infrared diode
sensing distance Tw	30 ... 200 mm
alignment / soiled lens indicator	flashing light indicator
light indicator	LED yellow
sensitivity adjustment	potentiometer, 270°
wave length	880 nm
suppression of reciprocal influence	yes

electrical data

response time / release time	< 1 ms
voltage supply range +Vs	10 ... 30 VDC
current consumption max.	42 mA
current consumption typ.	24 mA
voltage drop Vd	< 1,8 VDC
output current	< 200 mA
short circuit protection	yes
reverse polarity protection	yes

mechanical data

width / diameter	12 mm
type	cylindrical
housing material	brass nickel plated
front (optics)	PC

ambient conditions

operating temperature	-25 ... +65 °C
protection class	IP 65

sample picture



order reference	height / length	connection types	output circuit	output function
FZAM 12N1104	70 mm	cable 3 pin, 2 m	NPN	light operate
FZAM 12N1104/S14	80 mm	connector M12 4 pin	NPN	light operate
FZAM 12N3104	70 mm	cable 3 pin, 2 m	NPN	dark operate
FZAM 12N3104/S14	80 mm	connector M12 4 pin	NPN	dark operate
FZAM 12P1104	70 mm	cable 3 pin, 2 m	PNP	light operate
FZAM 12P1104/S14	80 mm	connector M12 4 pin	PNP	light operate
FZAM 12P3104	70 mm	cable 3 pin, 2 m	PNP	dark operate
FZAM 12P3104/S14	80 mm	connector M12 4 pin	PNP	dark operate