SSF series

M18 photoelectric sensors
for optical fibres

features

- **Models with sensitivity adjustment by teach-in button**
- **With range of optical fibres are available**
- **LED status indicator for all versions**
- **Complete protection against electrical damages**
- **Approvals: CE and cULus listed**



web contents

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code description

SS F / 0 N - 0 A

series	SS	M18 photoelectric sensor
function	F	For optical fibre
LO / DO	0	Selectable LO/DO
NPN / PNP output	N	NPN output
	P	PNP output
housing	0	Plastic housing
	1	Metal housing
cable / plug output	A	Axial cable exit 2 m
	E	M12 plug cable exit

available models

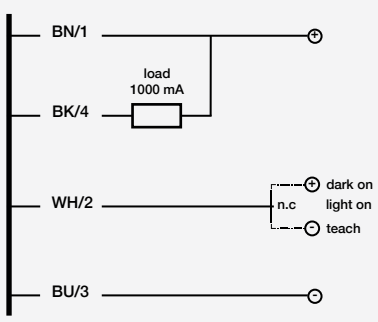
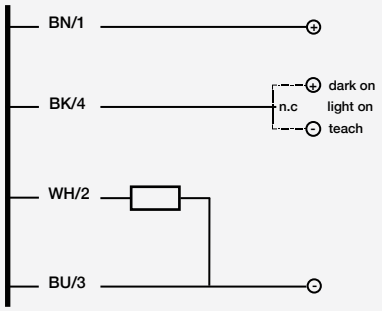
dimensions	housing	adjustment	plug	PNP	NPN
				NO / NC	NO / NC
M18	plastic	Teach-In	cable	SSF/0P-0A	SSF/0N-0A
			M12	SSF/0P-0E	SSF/0N-0E
	metallic		cable	SSF/0P-1A	SSF/0N-1A
			M12	SSF/0P-1E	SSF/0N-1E

technical specification

	SSF/0*-**
	
nominal sensing distance	depending on optical fibres
emission	red (660 nm)
tolerance	+ 15 %...- 5 %
differential travel	≤ 10 %
repeat accuracy	5 %
operating voltage	10...30 Vdc
ripple	≤ 10 %
load current	100 mA
no-load current	≤ 20 mA
leakage current	≤ 10 µA
output voltage drop	2 V max
output type	NPN or PNP - LO / DO selectable
switching frequency	800 Hz
power on delay	150 ms
power supply protections	polarity reversal, transient
output electrical protections	short circuit (autoreset)
temperature range	- 25°C...+ 70°C (without freeze)
temperature drift	10 % Sr
external ligth interference	3,000 lux (incandescent lamp) 10,000 lux (sunlight)
protection degree	IP67 (EN60529) [1]
LEDs	yellow
sensitivity adjustment	Teach-In
housing material	PBT (plastic), nickel-plated brass (metal)
optic material	depending on optical fibres
tightening torque	1 Nm (plastic housing), 25 Nm (metallic housing)
weight (approximate)	plastic version: 30 g connector / 100 g cable metallic version: 70 g connector / 130 g cable

[1] Protection guaranteed only with plug cable well mounted

electrical diagrams of the connections

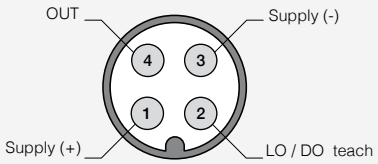
NPN	PNP
	

BN	brown
BU	blue
BK	black
WH	withe
PK	pink
GY	gray

In case bothe dark on and remote teach in functions are necessary connect a pull up resistor of 2,2 kΩ between Wh/2 and Bn/1.

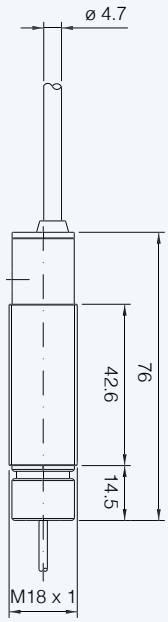
plug

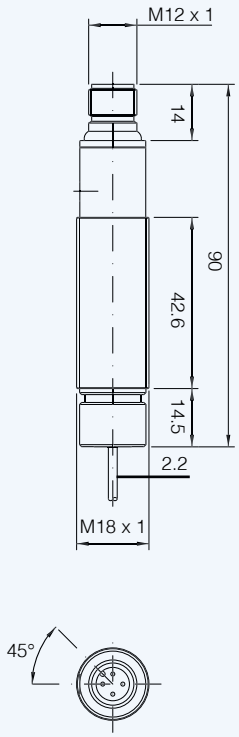
M12



dimensions (mm)

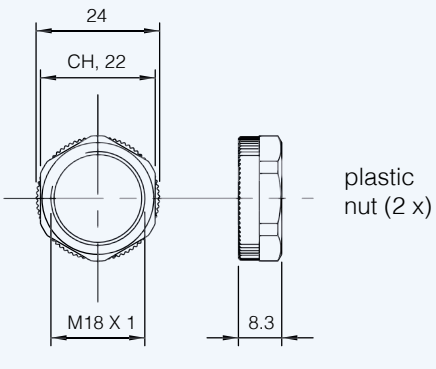
SSF/0*-*A	SSF/0*-*E





dimensions (mm)

accessories included in all plastic models



dimensions (mm)

accessories included in all metallic models

