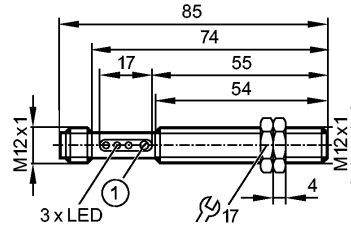




OFT-FNKG/US-100

Photoelectric sensors



1: potentiometer



Product characteristics  
Diffuse reflection sensor

Threaded type

M12 x 1

Quick disconnect

Function check output

Range 1...200mm (referred to white paper 200 x 200 mm)

adjustable

Electrical data

Electrical design

DC NPN

Operating voltage [V]

10...36 DC

Current consumption [mA]

< 35

Type of light

Infrared light 880 nm

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

light-on / dark-on programmable

**Voltage drop**

- Switching output [V]

< 2.5

- Function check output [V]

< 3.5

**Current rating**

- Switching output [mA]

200

- Function check output [mA]

10

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

320

Monitoring range

Range [mm]

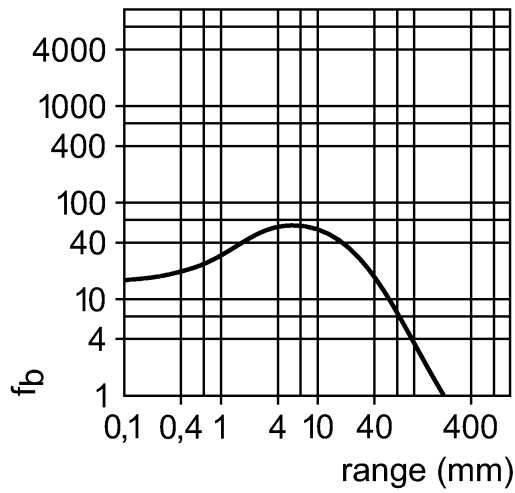
1...200 (referred to white paper 200 x 200 mm)

Light spot diameter [mm]

92 ( at maximum range )

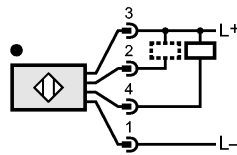
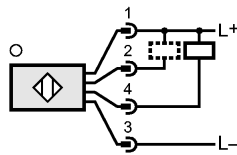
**Excess gain graphs**

**OF5049 - Diffuse reflection sensor - eclass: 27270903 / 27-27-09-03**



Environment	
Ambient temperature [°C]	-25...60
Protection	IP 65
Tests / approvals	
EMC	EN 60947-5-2 EN 55011: class B
MTTF [Years]	601
Mechanical data	
Housing materials	brass nickel-plated
Lens material	PMMA
Weight [kg]	0.048
Displays / operating elements	
Output status indication LED	yellow
Power LED	green
Function display LED	red
Electrical connection	
Connection	M12 connector

**Wiring**



2: function check

Accessories	
Accessories (included)	2 lock nuts; screwdriver
Remarks	
Pack quantity [piece]	1