

Product characteristics

Diffuse reflection sensor

Threaded type

M30 x 1.5

Terminals

Range 3...700mm (referred to white paper 200 x 200 mm)

adjustable

Electrical data

Electrical design

DC NPN

Operating voltage [V]

10...55 DC

Current consumption [mA]

30 (24 V)

Type of light

Infrared light 880 nm

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

light-on / dark-on programmable

Voltage drop [V]

< 2.5

Current rating [mA]

250

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

100

Monitoring range

Range [mm]

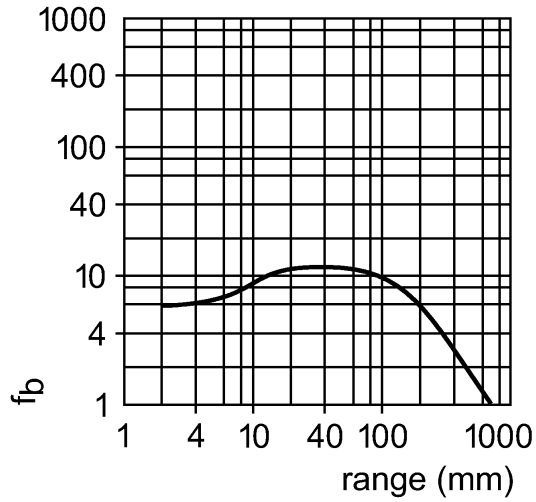
3...700 (referred to white paper 200 x 200 mm)

Light spot diameter [mm]

122 ( at maximum range )

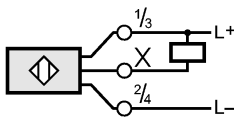
Excess gain graphs

**OI5004 - Diffuse reflection sensor - eclass: 27270903 / 27-27-09-03**



Environment	
Ambient temperature [°C]	-25...80
Protection	IP 65
Tests / approvals	
EMC	EN 60947-5-2
MTTF [Years]	659
Mechanical data	
Housing materials	PBT; modified PPO
Lens material	PMMA
Weight [kg]	0.117
Displays / operating elements	
Output status indication LED	yellow
Electrical connection	
Connection	terminals up to 1.5 mm <sup>2</sup> ; cable diameter 7...13 mm, cable gland M20 x 1.5

**Wiring**



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