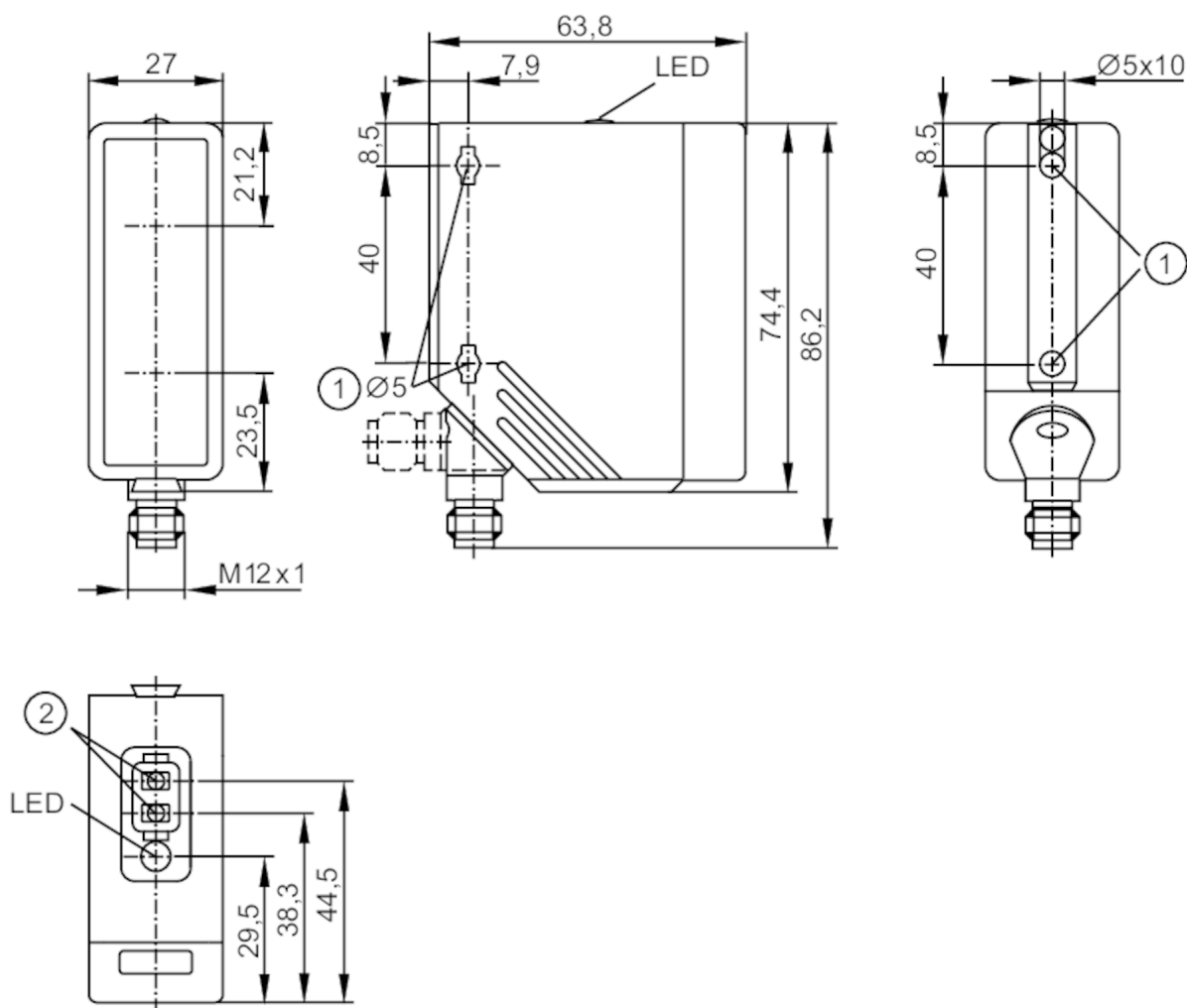


O4P500



Retro-reflective sensor

O4P-FPKG/US100



- 1 mounting hole
- 2 Programming buttons
Receiver in upper lens
transmitter in lower lens



Product characteristics

Type of light	red light
Housing	rectangular

Application

System	polarization filter
Function principle	Retro-reflective sensor

Electrical data

Operating voltage	[V]	10...36 DC; (cULus - Class 2 source required)
Current consumption	[mA]	20
Protection class		II
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	624

O4P500



Retro-reflective sensor

O4P-FPKG/US100

Outputs		
Electrical design	PNP	
Output function	light-on/dark-on mode; (programmable)	
Max. voltage drop switching output DC [V]	2.5	
Permanent current rating of switching output DC [mA]	200	
Switching frequency DC [Hz]	2000	
Short-circuit protection	yes	
Type of short-circuit protection	yes (non-latching)	
Overload protection	yes	
Monitoring range		
Range referred to prismatic reflector [m]	0.3...22; (Prismatic reflector Ø 80 E20005)	
Range adjustable	yes	
Max. light spot diameter [mm]	660	
Light spot dimensions refer to	at maximum range	
Polarization filter available	yes	
Operating conditions		
Ambient temperature [°C]	-25...60	
Protection	IP 67	
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	434	
Mechanical data		
Weight [g]	124.5	
Housing	rectangular	
Dimensions [mm]	74.4 x 27 x 63.8	
Material	housing: PA; Front framework: stainless steel; operator interface: TPE	
Lens material	PMMA	
Lens alignment	Side sensing	
Mounting hole		
Tightening torque [Nm]	< 2; (when using a mounting screw M5)	
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Teach function	yes	
Electronic lock	yes	
Remarks		
Pack quantity	1 pcs.	

O4P500



Retro-reflective sensor

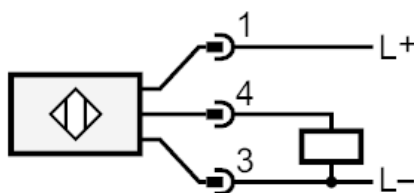
O4P-FPKG/US100

Electrical connection

Connector: 1 x M12; coding: A

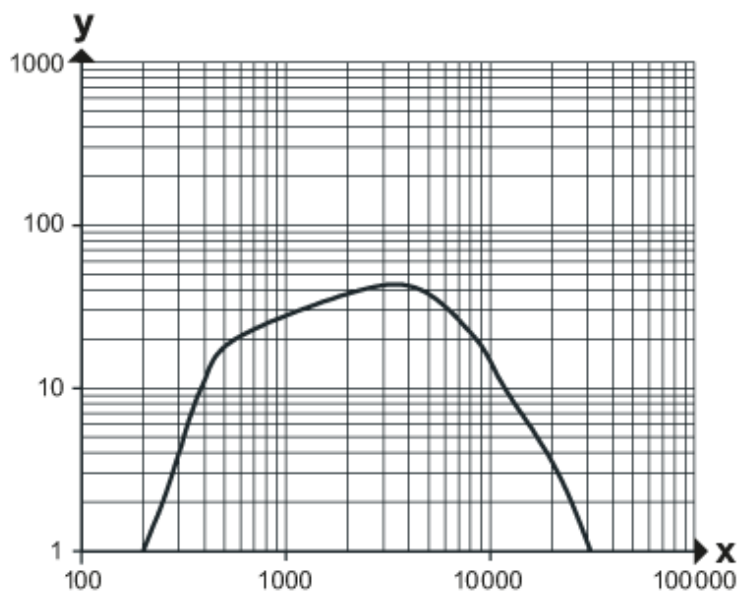


Connection



Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor