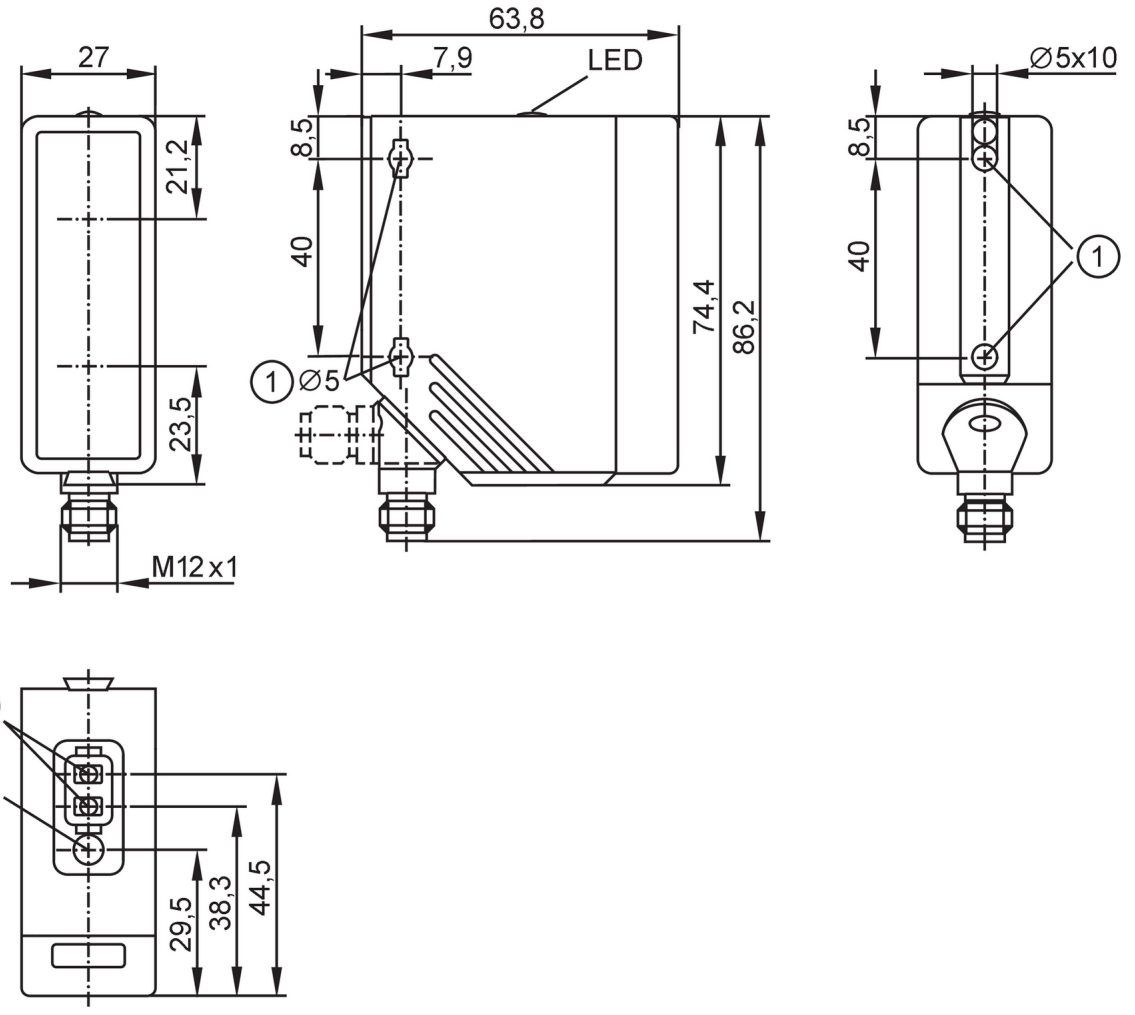
O4P500

Retro-reflective sensor

O4P-FPKG/US100



1 fixing hole
2 programming buttons
receiver in upper lens
transmitter in lower lens

Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Special feature		polarisation filter
Function principle		Retro-reflective sensor
Application		Industrial applications / factory automation
Electrical data		
Operating voltage	[V]	10...36 DC; ("supply class 2" to cULus)
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		pulsed	
Overload protection		yes	
Detection zone			
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	
Polarisation 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	
Materials		operator interface: TPE; housing: PA; bezel: stainless steel	
Lens material		front pane:PMMA	
Lens alignment		side lens	
Fixing 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

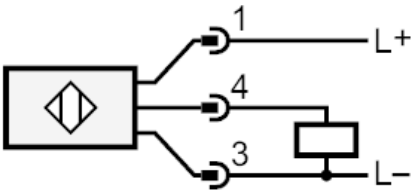
O4P-FPKG/US100

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4

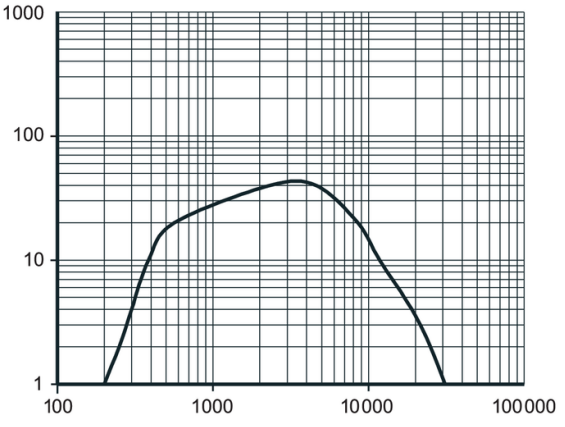


Connection



Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor