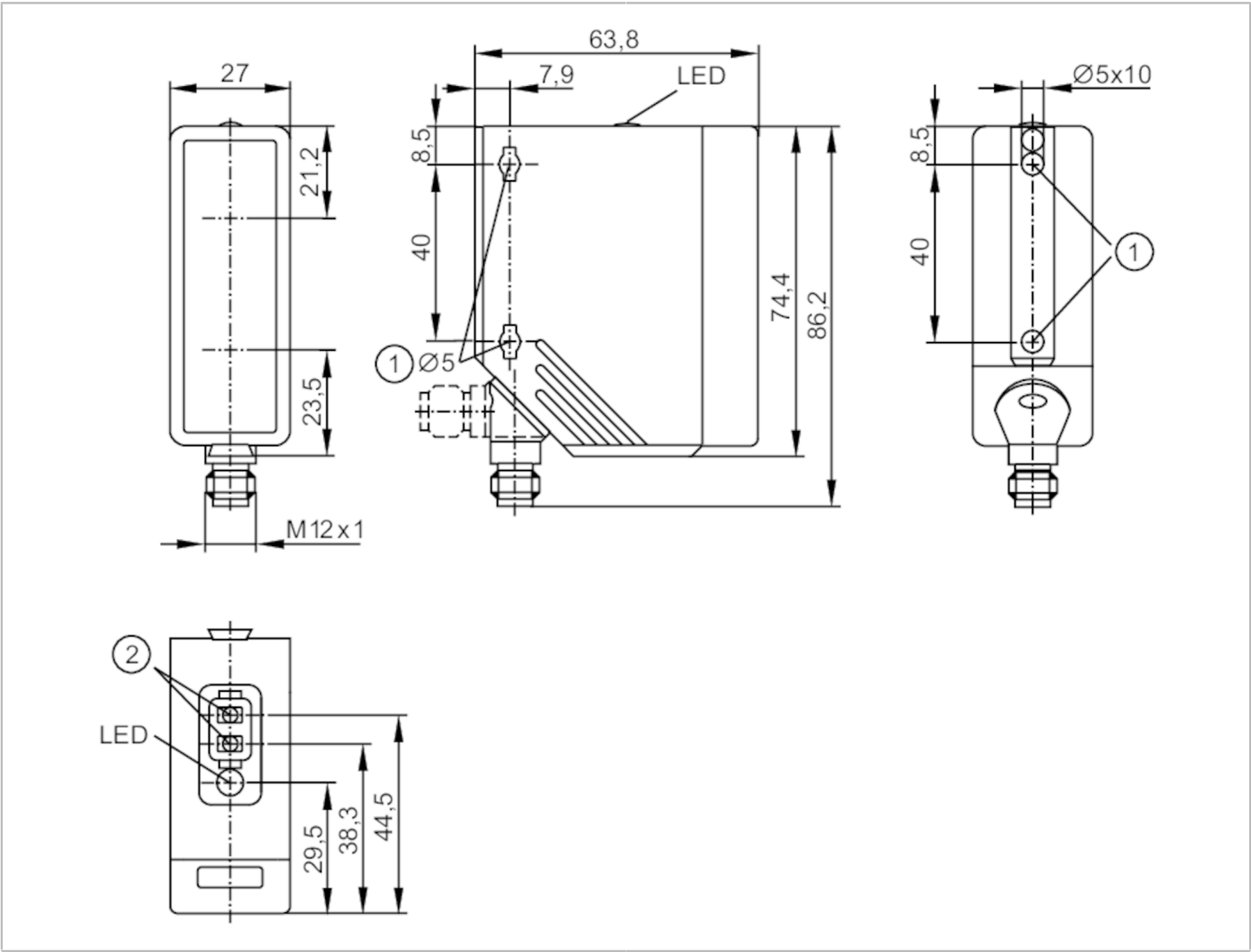


O4P500



Retro-reflective sensor

O4P-FPKG/US100



Product characteristics

Type of light	red light
Housing	rectangular

Application

Special feature	polarisation filter
Function principle	Retro-reflective sensor

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

Outputs

Electrical design	PNP
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Retro-reflective sensor

O4P-FPKG/US100

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	housing: PA; bezel: stainless steel; operator interface: TPE	
Lens material	PMMA	
Lens alignment	side lens	

Displays / operating elements

Display	switching status	1 x LED, yellow
Teach function	yes	
Electronic lock	yes	

Remarks

Pack quantity	1 pcs.	
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Electrical connection

Connector: 1 x M12; coding: A



Retro-reflective sensor

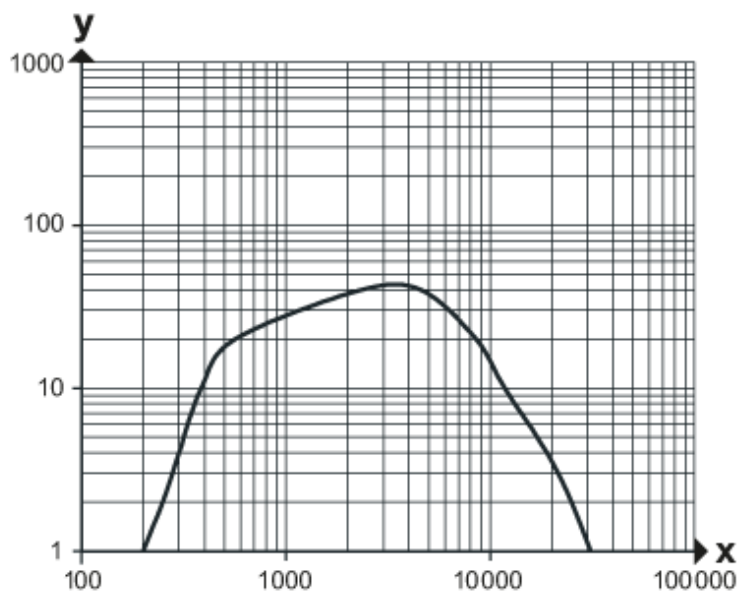
O4P-FPKG/US100

Connection



Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor