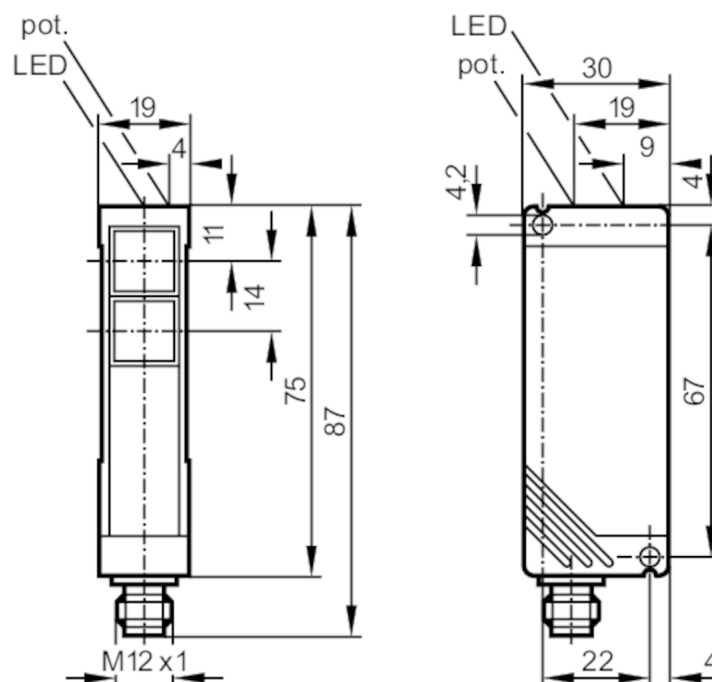


Retro-reflective sensor

OTP-FPKG/US-100-IPF



receiver in lower lens
transmitter in upper lens



Application

Function principle Retro-reflective sensor

Electrical data

Operating voltage [V]	10...50 DC
Current consumption [mA]	35; ((24 V))
Protection class	II
Reverse polarity protection	yes
Type of light	red light
Wave length [nm]	660

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]	250
Switching frequency DC [Hz]	150
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes



Retro-reflective sensor

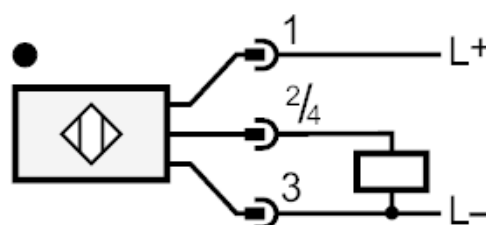
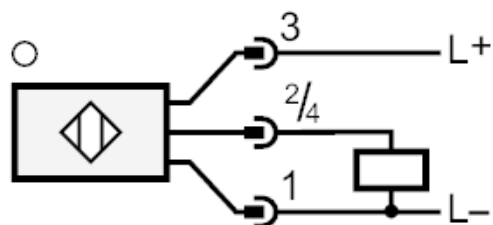
OTP-FPKG/US-100-IPF

Detection zone		
Range referred to prismatic reflector	[m]	0.2...2; (Prismatic reflector Ø 80 E20005)
Range adjustable		yes
Max. light spot diameter	[mm]	280
Light spot dimensions refer to		at maximum range
Polarisation filter available		yes
Operating conditions		
Ambient temperature	[°C]	-25...60
Protection		IP 65
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	585
Mechanical data		
Weight	[g]	161
Housing		rectangular
Dimensions	[mm]	75 x 19 x 30
Materials		PBT
Lens material		PMMA
Lens alignment		side lens
Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
Accessories		
Accessories (supplied)	Angle bracket: 1 x, E20461	
	screwdrivers	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12		
		

Retro-reflective sensor

OTP-FPKG/US-100-IPF

Connection



Diagrams and graphs

excess gain graph

