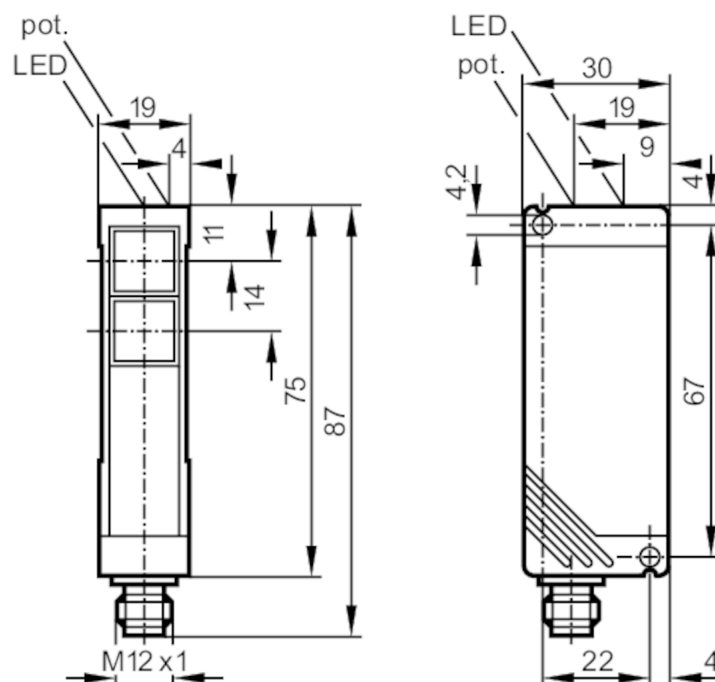


Retro-reflective sensor

OTR-FPKG/US-100-IPF



Receiver in lower lens
Transmitter in upper lens



Product characteristics

Type of light	Infrared light
Housing	rectangular

Application

Function principle	Retro-reflective sensor
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Electrical data

Operating voltage	[V]	10...50 DC
Current consumption	[mA]	40; ((24 V))
Protection class		II
Reverse polarity protection		yes
Type of light		Infrared light
Wave length	[nm]	880

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

OT5013



Retro-reflective sensor

OTR-FPKG/US-100-IPF

Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Range referred to prismatic reflector [m]	0.15...5; (Prismatic reflector Ø 80 E20005)
Range adjustable	yes
Max. light spot diameter [mm]	262
Light spot dimensions refer to	at maximum range

Operating conditions

Ambient temperature [°C]	-25...60
Protection	IP 65

Tests / approvals

EMC	EN 60947-5-2	
MTTF [years]		583

Mechanical data

Weight [g]	161.5
Housing	rectangular
Dimensions [mm]	75 x 19 x 30
Material	PBT
Lens material	PMMA
Lens alignment	Side sensing

Displays / operating elements

Display	Switching status	1 x LED, yellow
	Power	1 x LED, green

Accessories

Items supplied	Angle bracket: 1, E20461 screwdrivers
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Remarks

Pack quantity	1 pcs.
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Electrical connection

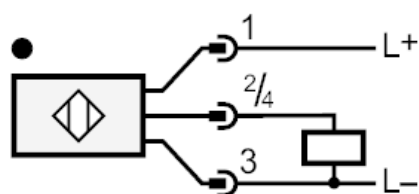
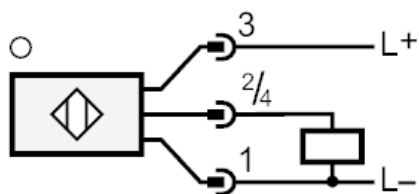
Connector: 1 x M12; coding: A



Retro-reflective sensor

OTR-FPKG/US-100-IPF

Connection



Diagrams and graphs

excess gain graph

