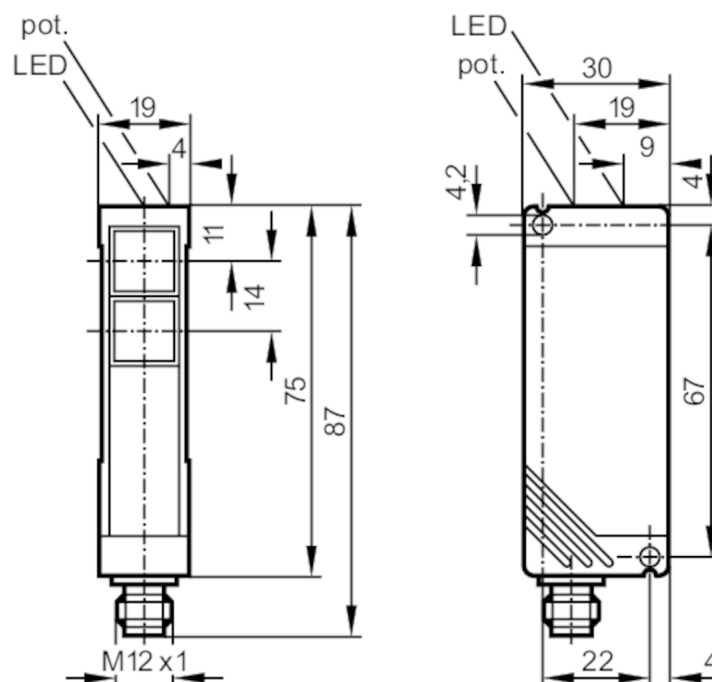


Diffuse reflection sensor

OTT-FPKG/US-100-IPF



receiver in lower lens
transmitter in upper lens



Product characteristics

Type of light	infrared light
Housing	rectangular
Dimensions [mm]	75 x 19 x 30

Application

Function principle	Diffuse reflection 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



Diffuse reflection sensor

OTT-FPKG/US-100-IPF

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	
Detection zone		
Range [mm]	4...200; (white paper 200 x 200 mm)	
Range adjustable	yes	
Max. light spot diameter [mm]	187	
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]	146.5	
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		

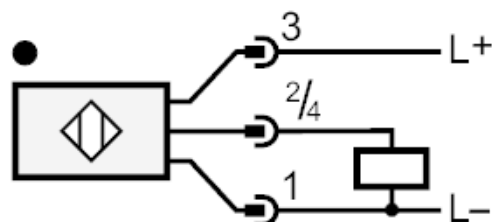
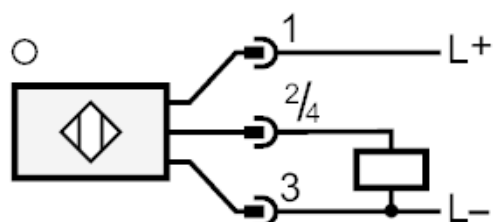
OT5003

Diffuse reflection sensor

OTT-FPKG/US-100-IPF



Connection





Diffuse reflection sensor

OTT-FPKG/US-100-IPF

Diagrams and graphs

excess gain graph

