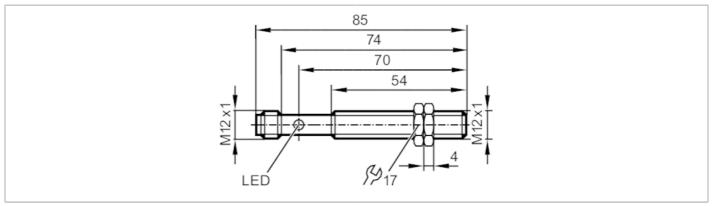
# OF5021

# Through-beam sensor transmitter

OFS-OOKG/US-100







Type of light				
Housing	Product characteristics			
Dimensions   [mm]   M12 x 1 / L = 74	Type of light			
Application Function principle Through-beam sensor  Electrical data Operating voltage [V] 1036 DC Current consumption [mA] Protection class II Reverse polarity protection Type of light Wave length [nm] Substituting protection Type of short-circuit protection Overload protection Overload protection Petection zone Transmitter / receiver Range [m] Range adjustable Max. light spot diameter Light spot diameter Light spot dimensions refer to  Operating conditions Ambient temperature Protection	Housing			
Electrical data   Comment   Commen	Dimensions	[mm]	M12 x 1 / L = 74	
Compact   Comp	Application			
Operating voltage         [V]         1036 DC           Current consumption         [mA]         < 25	Function principle		Through-beam sensor	
Current consumption         [mA]         < 25	Electrical data			
Protection class Reverse polarity protection Type of light Wave length [nm] 880  Outputs Short-circuit protection Type of short-circuit protection Type of short-circuit protection Overload protection  Petection zone Transmitter / receiver Range [m] Range adjustable no Max. light spot diameter [mm] Coperating conditions Ambient temperature Protection EN 60947-5-2	Operating voltage	[V]	1036 DC	
Reverse polarity protection Type of light Wave length [nm] 880  Outputs Short-circuit protection Type of short-circuit protection Type of short-circuit protection Overload protection Overload protection Transmitter / receiver Range [m] Range adjustable no Max. light spot diameter [mm] Light spot dimensions refer to Operating conditions Ambient temperature P**C Protection Protection Protection Protection Protection Protection  EN 60947-5-2 EN 60947-5-2	Current consumption	[mA]	< 25	
Type of light         infrared light           Wave length         [nm]         880           Outputs           Short-circuit protection         yes           Type of short-circuit protection         pulsed           Overload protection         yes           Detection zone           Transmitter / receiver         transmitter           Range         [m]         < 4           Range adjustable         no           Max. light spot diameter         [mm]         700           Light spot dimensions refer to         at maximum range           Operating conditions         Ambient temperature         [°C]         -2560           Protection         IP 65           Tests / approvals         EM 60947-5-2	Protection class		II	
Wave length [nm] 880  Outputs  Short-circuit protection yes Type of short-circuit protection pulsed  Overload protection yes  Detection zone  Transmitter / receiver transmitter  Range [m] < 4  Range adjustable no  Max. light spot diameter [mm] 700  Light spot dimensions refer to at maximum range  Operating conditions  Ambient temperature [°C] -2560  Protection IP 65  Tests / approvals  EMC EN 60947-5-2	Reverse polarity protection		yes	
Outputs Short-circuit protection Type of short-circuit protection Overload protection Overload protection  Detection zone Transmitter / receiver Range [m] < 4 Range adjustable Range adjustable Range dimensions refer to  Max. light spot diameter [mm] Light spot dimensions refer to  Operating conditions Ambient temperature [°C] Protection  Tests / approvals  EMC EN 60947-5-2	Type of light		infrared light	
Short-circuit protection Type of short-circuit protection Overload protection  Detection zone Transmitter / receiver Range [m]	Wave length	[nm]	880	
Type of short-circuit protection  Overload protection  Detection zone  Transmitter / receiver  Range [m]  Range adjustable  Range adjustable  Max. light spot diameter [mm]  Light spot dimensions refer to  Operating conditions  Ambient temperature [°C]  Protection  Tests / approvals  EMC  EN 60947-5-2	Outputs			
protection Overload protection  Detection zone  Transmitter / receiver Range [m]	Short-circuit protection		yes	
Detection zone  Transmitter / receiver transmitter  Range [m] < 4  Range adjustable no  Max. light spot diameter [mm] 700  Light spot dimensions refer to at maximum range  Operating conditions  Ambient temperature [°C] -2560  Protection IP 65  Tests / approvals  EMC EN 60947-5-2			pulsed	
Transmitter / receiver  Range [m] < < 4  Range adjustable  no  Max. light spot diameter [mm]	Overload protection		yes	
Range adjustable no  Max. light spot diameter [mm] 700  Light spot dimensions refer to at maximum range  Operating conditions  Ambient temperature [°C] -2560  Protection IP 65  Tests / approvals  EMC EN 60947-5-2	Detection zone			
Range adjustable no  Max. light spot diameter [mm] 700  Light spot dimensions refer to at maximum range  Operating conditions  Ambient temperature [°C] -2560  Protection IP 65  Tests / approvals  EMC EN 60947-5-2	Transmitter / receiver		transmitter	
Max. light spot diameter [mm]  Light spot dimensions refer to  Operating conditions  Ambient temperature [°C]  Protection  Tests / approvals  EMC  EN 60947-5-2	Range	[m]	< 4	
Light spot dimensions refer to  Operating conditions  Ambient temperature [°C] -2560  Protection IP 65  Tests / approvals  EMC EN 60947-5-2	Range adjustable		no	
Operating conditions  Ambient temperature [°C] -2560  Protection IP 65  Tests / approvals  EMC EN 60947-5-2	Max. light spot diameter	[mm]	700	
Ambient temperature         [°C]         -2560           Protection         IP 65           Tests / approvals           EMC         EN 60947-5-2	Light spot dimensions refer to		at maximum range	
Protection IP 65  Tests / approvals  EMC EN 60947-5-2	Operating conditions			
Tests / approvals EMC EN 60947-5-2	Ambient temperature	[°C]	-2560	
EMC EN 60947-5-2	Protection		IP 65	
	Tests / approvals			
MTTF [years] 1597	EMC		EN 60947-5-2	
	MTTF	[years]	1597	

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## Through-beam sensor transmitter





Mechanical data					
Weight	[g]	35.5			
Housing		threaded type			
Dimensions	[mm]	M12 x 1 / L = 74			
Thread designation		M12 x 1			
Materials		brass white bronze coated			
Lens material		PMMA			

Matchais	brass write bronze coaled				
Lens material	PMMA				
Displays / operating elements					
Display	operation	1 x LED, green			
Accessories					
Accessories (supplied)	lock nuts: 2 x				
Remarks					
Pack quantity	1 pcs.				

## **Electrical connection**

Connector: 1 x M12



### Connection

