Fiber-Optic Cable Sensor

UF66MG3 Part Number



- Analog output (0...10 V DC)
- Linear output signal proportional to distance
- Usable with or without glass fiber-optic cable

Technical Data

Working Range1001000 mmMeasuring Range900 mmResolution20 mmLinearity5 %Light SourceInfrared LightWavelength880 nmService Life (T = +25 °C)100000 hMax. Ambient Light10000 LuxOpening Angle12 °Electrical Data2030 V DCCurrent Consumption (Ub = 24 V)< 40 mASwitching Frequency30 HzResponse Time15 msTemperature Drift1 mm/KTemperature Range-1060 °CAnalog Output010 V DCOutput Resistance Analog Output1 kOhmShort Circuit ProtectionyesProtection ClassIIIMechanical DataUISetting MethodPotentiometerHousing MaterialCuZn, nickel-plated					
Resolution20 mmLinearity5 %Light SourceInfrared LightWavelength880 nmService Life (T = +25 °C)100000 hMax. Ambient Light10000 LuxOpening Angle12 °Electrical Data2030 V DCCurrent Consumption (Ub = 24 V)< 40 mA					
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Analog Output010 V DCOutput Resistance Analog Output1 kOhmShort Circuit ProtectionyesReverse Polarity ProtectionyesProtection ClassIIIMechanical DataSetting MethodSetting MethodPotentiometer					
Output Resistance Analog Output 1 kOhm Short Circuit Protection yes Reverse Polarity Protection yes Protection Class III Mechanical Data Setting Method Potentiometer					
Set Circuit Protection yes Reverse Polarity Protection yes Protection Class III Mechanical Data Setting Method					
Reverse Polarity Protection yes Protection Class III Mechanical Data Setting Method Potentiometer					
Protection Class III Mechanical Data Setting Method Potentiometer					
Mechanical Data Setting Method Potentiometer					
Setting Method Potentiometer					
Housing Material CuZn. nickel-plated					
P					
Full Encapsulation yes					
Degree of Protection IP65					
Connection M12 × 1; 4-pin					
Analog Output					
Connection Diagram No. 501					
Control Panel No. F7					
Suitable Connection Equipment No. 2					
Suitable Mounting Technology No. 130					
Suitable Fiber-Optic Cable Adapter No. 01					

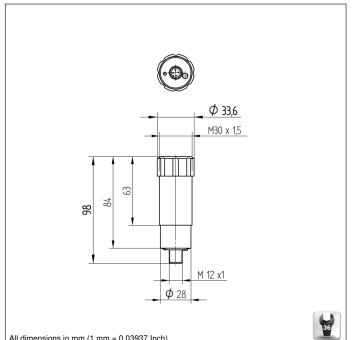
This sensor is suitable for analog distance measurements and can be used with or without a glass fiber cable. The output voltage is dependent upon the brightness of the object to be measured, as bright objects reflect transmitted light better than dark objects.



Complementary Products Glass Fiber-Optic Cable

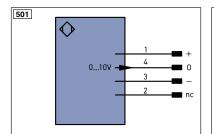
Photoelectronic Sensors







All dimensions in mm (1 mm = 0.03937 Inch)



Legen	d	PT	Platinum measuring resistor	ENAR5422	Encoder A/Ā (TTL)	
+	Supply Voltage +	nc	not connected	ENBR5422	Encoder B/B (TTL)	
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENв	Encoder B	
А	Switching Output (NO)	W	Trigger Input	AMIN	Digital output MIN	
Ā	Switching Output (NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX	
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
V	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
Е	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input	Awv	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)	а	Valve Control Output +	м	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Co	Wire Colors according to DIN IEC 757	
TxD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black	
RDY	Ready	E+	Receiver-Line	BN	Brown	
GND	Ground	S+	Emitter-Line	RD	Red	
CL	Clock	÷	Grounding	OG	Orange	
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow	
۲	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet	
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey	
Signal		Mag	Magnet activation	WH	White	
	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink	
	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	

