Fiber-Optic Cable Sensor

UF55MG3

Part Number

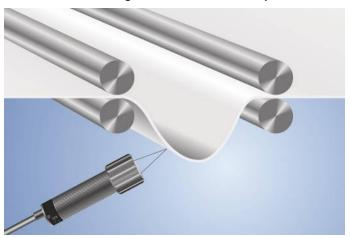


- Analog output (0...10 V DC)
- Linear output signal proportional to distance
- Usable with or without glass fiber-optic cable

Technical Data

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Optical Data				
Working Range	50500 mm			
Measuring Range	450 mm			
Resolution	10 mm			
Linearity	5 %			
Light Source	Infrared Light			
Wavelength	880 nm			
Service Life (T = +25 °C)	100000 h			
Max. Ambient Light	10000 Lux			
Opening Angle	12 °			
Electrical Data				
Supply Voltage	2030 V DC			
Current Consumption (Ub = 24 V)	< 40 mA			
Switching Frequency	50 Hz			
Response Time	10 ms			
Temperature Drift	1 mm/K			
Temperature Range	-1060 °C			
Analog Output	010 V DC			
Output Resistance Analog Output	1 kOhm			
Short Circuit Protection	yes			
Reverse Polarity Protection	yes			
Protection Class III				
Mechanical Data				
Setting Method	Potentiometer			
Housing Material	CuZn, nickel-plated			
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			

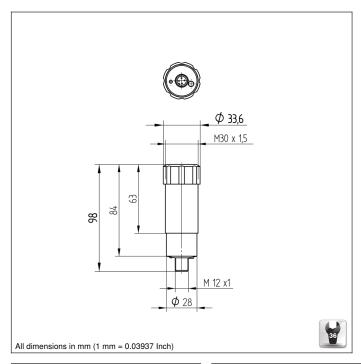
This sensor is suitable for analog distance measurements and can be used with or without a glass fiber cable. The output voltage is dependent upon the brightness of the object to be measured, as bright objects reflect transmitted light better than dark objects.



Complementary Products

Glass Fiber-Optic Cable

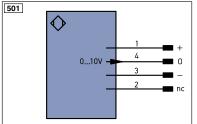




Ctrl. Panel



- 12 = Analog Output Indicator
- 16 = Working Distance Adjustment



Legen	ıd	PT	Platinum measuring resistor	ENARS42	Encoder A/Ā (TTL)	
+	Supply Voltage +	nc	not connected	ENBRS42		
_	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENB	Encoder B	
Α	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	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	
E	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 C	Vire 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	
•	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	Signal Output	Mag	Magnet activation	WH	White	
BI_D+/-	Ethernet Gigabit bidirect, data line (A-D)	RES	Input confirmation	PK	Pink	
ENors42	2 Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	









