

# 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

#### Optical Data

Working Range	100...1000 mm
Measuring Range	900 mm
Resolution	20 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 °

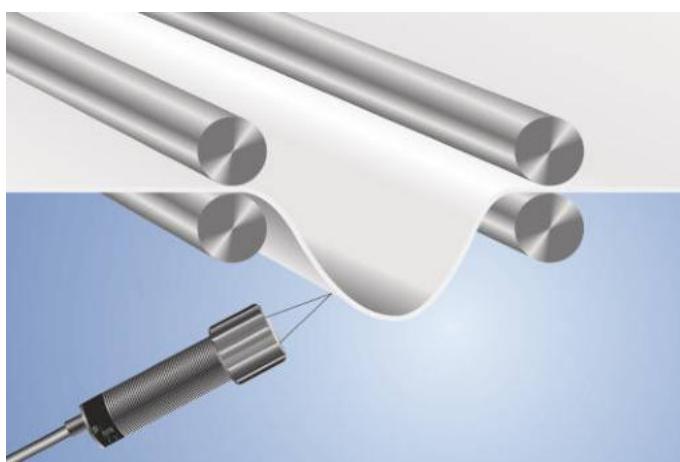
#### Electrical Data

Supply Voltage	20...30 V DC
Current Consumption (Ub = 24 V)	< 40 mA
Switching Frequency	30 Hz
Response Time	15 ms
Temperature Drift	1 mm/K
Temperature Range	-10...60 °C
Analog Output	0...10 V DC
Output Resistance Analog Output	1 kOhm
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Protection Class	III

#### Mechanical Data

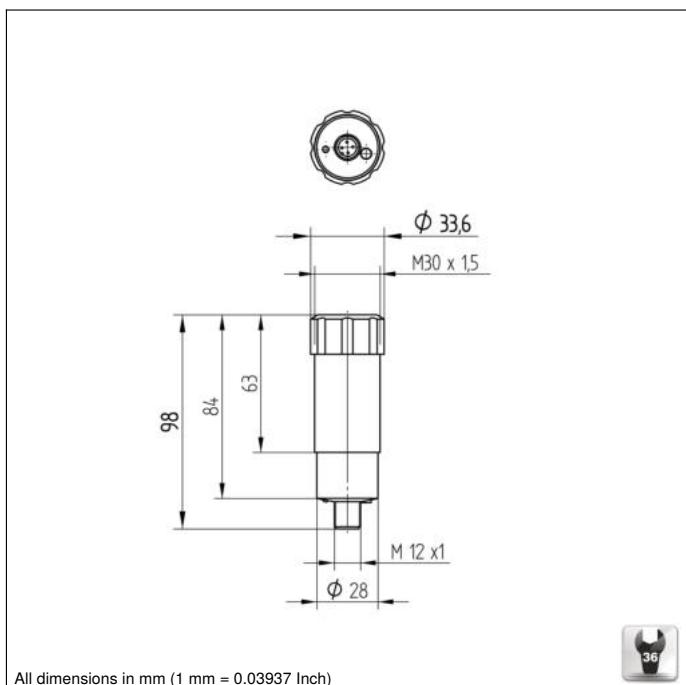
Setting Method	Potentiometer
Housing Material	CuZn, nickel-plated
Full Encapsulation	yes
Degree of Protection	IP65
Connection	M12 x 1; 4-pin
Analog Output	
Connection Diagram No.	501
Control Panel No.	F7
Suitable Connection Equipment No.	2
Suitable Mounting Technology No.	130
Suitable Fiber-Optic Cable Adapter No.	01

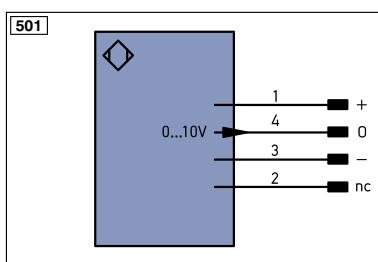
This sensor is suitable for analog distance measurements and can be used with or without a glass fiber cable. The output voltage is dependent upon the brightness of the object to be measured, as bright objects reflect transmitted light better than dark objects.



### Complementary Products

Glass Fiber-Optic Cable


**Ctrl. Panel**

 12 = Analog Output Indicator  
 16 = Working Distance Adjustment

**Legend**

PT	Platinum measuring resistor
nc	not connected
U	Test Input
Ü	Test Input inverted
W	Trigger Input
W-	Ground for the Trigger Input
O	Analog Output
O-	Ground for the Analog Output
BZ	Block Discharge
Awv	Valve Output
a	Valve Control Output +
b	Valve Control Output 0 V
SY	Synchronization
SY-	Ground for the Synchronization
E+	Receiver-Line
E-	Emitter-Line
±	Grounding
SnR	Switching Distance Reduction
Rx+/-	Ethernet Receive Path
Tx+/-	Ethernet Send Path
Bus	Interfaces-Bus A(+)/B(-)
La	Emitted Light disengageable
Mag	Magnet activation
RES	Input confirmation
EDM	Contactor Monitoring

ENars422 Encoder A/A (TTL)  
 ENBrs422 Encoder B/B (TTL)  
 ENA Encoder A  
 ENB Encoder B  
 Amin Digital output MIN  
 Amax Digital output MAX  
 Aok Digital output OK  
 SYin Synchronization IN  
 SYout Synchronization OUT  
 Olt Brightness output  
 M Maintenance  
 rsv reserved

Wire Colors according to DIN IEC 757

BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Grey
WH	White
PK	Pink
GNYE	Green/Yellow

