Fiber-Optic Cable Sensor

UF88PA3

Part Number



- Adaptable for glass fiber-optic cables: reflex and through-beam mode
- Large detection range

Technical Data

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Optical Data			
Range	2000 mm		
Switching Hysteresis	< 15 %		
Light Source	Infrared Light		
Service Life (T = +25 °C)	100000 h		
Max. Ambient Light	10000 Lux		
Opening Angle	12 °		
Electrical Data			
Supply Voltage	1030 V DC		
Current Consumption (Ub = 24 V)	< 40 mA		
Switching Frequency	150 Hz		
Response Time	3300 μs		
Temperature Drift	< 10 %		
Temperature Range	-2560 °C		
Switching Output Voltage Drop	< 2,5 V		
Switching Output/Switching Current	200 mA		
Residual Current Switching Output	< 50 μA		
Short Circuit Protection	yes		
Reverse Polarity Protection	yes		
Overload 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		
PNP NO/NC antivalent	•		
Connection Diagram No.	101		
Control Panel No.	F2		
Suitable Connection Equipment No.	2		
uitable Mounting Technology No.			
Suitable Fiber-Optic Cable Adapter No.			

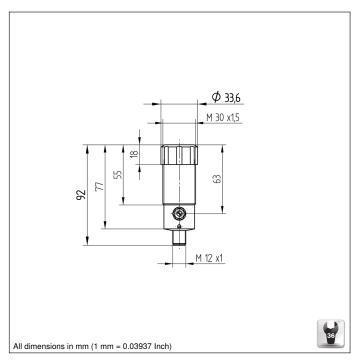
These sensors are equipped for use with glass fiber optic cables but can be used with or without one. The transmitter and receiver are located in a single housing. The sensor evaluates transmitted light reflected back from the object and the output is switched as soon as an object passes the selected range. Bright objects reflect more light than dark objects, and can thus be recognized from greater distances.



Complementary Products

Glass Fiber-Optic Cable PNP-NPN Converter BG2V1P-N-2M

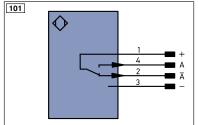




Ctrl. Panel



- 05 = Switching Distance Adjuster
- 30 = Switching Status/Contamination Warning



Legen	d	PT	Platinum measuring resistor	FNancon	Encoder A/Ā (TTL)	
+	Supply Voltage +	nc	not connected	ENBRS422		
_	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	
A	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	
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 Co	e 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	
ENors422	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	









