Fiber Optic Cable Sensor

UF88PA3 Part Number



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

Technical Data

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 Technology No.	2					
Suitable Mounting Technology No.	130					
Suitable Fiber Optic Cable Adapter No.	01					

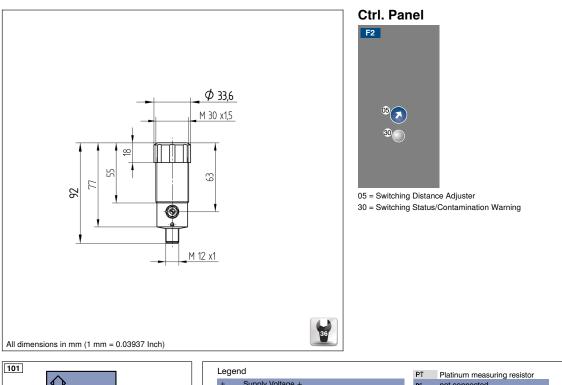
These sensors are equipped for use with glass fiber optic cables but can be used with or without one. The transmitter and receiver are located in a single housing. The sensor evaluates transmitted light reflected back from the object and the output is switched as soon as an object passes the selected 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





Ā

Legen	d	PT	Platinum measuring resistor	ENA	Encoder A	
+	Supply Voltage +	nc	not connected	ENв	Encoder B	
-	Supply Voltage 0 V	U	Test Input	Amin	Digital output MIN	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	Амах	Digital output MAX	
А	Switching Output (NO)	W	Trigger Input	Аок	Digital output OK	
Ā	Switching Output (NC)	0	Analog Output	SY In	Synchronization In	
V	Contamination/Error Output (NO)	0-	Ground for the Analog Output	SY OUT		
V	Contamination/Error Output (NC)	BZ	Block Discharge	OLT	Brightness output	
E	Input (analog or digital)	Awv	Valve Output	м	Maintenance	
Т	Teach Input	а	Valve Control Output +			
Z	Time Delay (activation)	b	Valve Control Output 0 V	_		
S	Shielding	SY	Synchronization		Wire Colors according to	
RxD	Interface Receive Path	E+	Receiver-Line	DIN IE	DIN IEC 757	
TxD	Interface Send Path	S+	Emitter-Line	BK	Black	
RDY	Ready	÷	Grounding	BN	Brown	
GND	Ground	SnR	Switching Distance Reduction	RD	Red	
CL	Clock	Rx+/	- Ethernet Receive Path	OG	Orange	
E/A	Output/Input programmable	Tx+/	– Ethernet Send Path	YE	Yellow	
0	IO-Link	Bus	Interfaces-Bus A(+)/B(-)	GN	Green	
PoE	Power over Ethernet	La	Emitted Light disengageable	BU	Blue	
IN	Safety Input	Mag	Magnet activation	VT	Violet	
OSSD	Safety Output	RES	Input confirmation	GY	Grey	
Signal	Signal Output	EDM	Contactor Monitoring	WH	White	
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D) ENAR	22 Encoder A/A (TTL)	PK	Pink	
ENO RS422	Encoder 0-pulse 0-0 (TTL)	ENBR	μ₂₂ Encoder B/B̄ (TTL)	GNYE	Green/Yellow	

