Fiber-optic amplifier

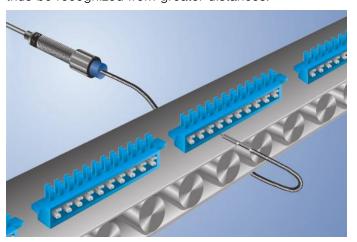
UC66PA3

Part Number



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

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.



Technical Data

Optical Data						
Range	1000 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	1 kHz					
Response Time	500 μs					
Temperature Drift	< 10 %					
Temperature Range	-2560 °C					
Switching Output Voltage Drop	< 2,5 V					
PNP 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	Stainless Steel					
Full Encapsulation	yes					
Degree of Protection	IP67					
Connection	M12 × 1; 4-pin					
Safety-relevant Data						
MTTFd (EN ISO 13849-1)	1948,21 a					
PNP NC, PNP NO	•					
Connection Diagram No.	101					
Control Panel No.	D6					
Suitable Connection Equipment No.	2					
Suitable Mounting Technology No.	150					
Suitable Fiber-Optic Cable Adapter No.	002					

Complementary Products

Glass Fiber-Optic Cable

PNP-NPN Converter BG2V1P-N-2M

Φ 22 M 18 x1 65 9 84 7, M 12 x1 Φ 16,4

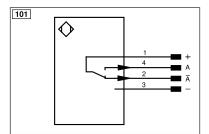
Ctrl. Panel

D6

Y24



- 01 = Switching Status Indicator
- 02 = Contamination Warning 05 = Switching Distance Adjuster



2 = Transmitter Diode All dimensions in mm (1 mm = 0.03937 Inch)

1 = Receiver Diode

Legend					
+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	0	Test Input inverted	ENB	Encoder B
A	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
⊽	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	Amv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)	а	Valve Control Output +	M	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Colors according to DIN IEC 60757	
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
②	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green
PoE	ower 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
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)		







