Fiber-optic amplifier

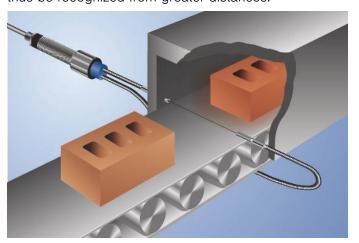
UC88PCV3

Part Number



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

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

Toominour Buttu				
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)	< 50 mA			
Switching Frequency	500 Hz			
Response Time	1 ms			
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			
PNP Contamination Output/Switching Current	50 mA			
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)	1854,34 a			
Contamination Output	•			
PNP NO				
Connection Diagram No.	105			
Control Panel No.	D5			
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 **Y**24 1 = Receiver Diode 2 = Transmitter Diode All dimensions in mm (1 mm = 0.03937 Inch)

Ctrl. Panel

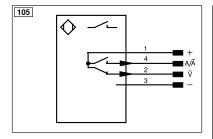
D5



01 = Switching Status Indicator

02 = Contamination Warning 05 = Switching Distance Adjuster

08 = NO/NC Switch



Legenu						
+	Supply Voltage +	nc	Not connected	ENB _{RS422}	Encoder B/B (TTL)	
-	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	
⊽	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	Аму	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 Colo	re 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)		•	







