Fiber-optic amplifier

US87PCV Part Number

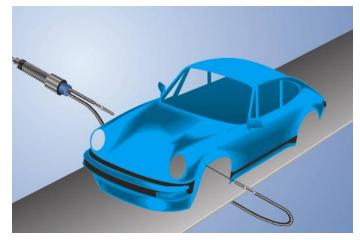


- Adaptable for glass fiber-optic cables: reflex and through-beam mode
- Large detection range

Technical Data

Optical Data			
Range	3000 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	100 Hz		
Response Time	5 ms		
Temperature Drift	< 10 %		
Temperature Range	-1060 °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	CuZn, nickel-plated		
Full Encapsulation	yes		
Degree of Protection	IP65		
Connection	Cable, 4-wire, 2 m		
Contamination Output			
PNP NO	Ó		
Connection Diagram No.	205		
Control Panel No.	F1 Fo1		
Suitable Mounting Technology No.	130		
Suitable Fiber-Optic Cable Adapter No.	005 006		

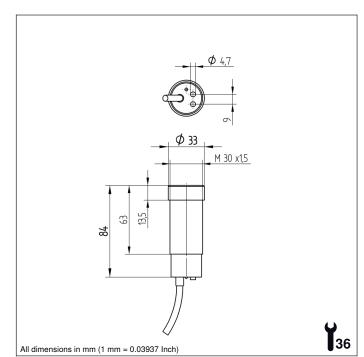
These sensors are equipped for use with glass fiber optic cables but can be used with or without one. The transmitter and receiver are located in a single housing. The sensor evaluates transmitted light reflected back from the object and the output is switched as soon as an object passes the selected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



Complementary Products Glass Fiber-Optic Cable

Photoelectronic Sensors





205

 \Diamond

UK CA

CE

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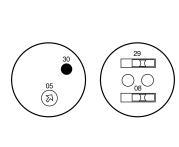
BN BK

WH

BU

• A/Ā

θV



Optic

Fo1

05 = Switching Distance Adjuster

08 = NO/NC Switch 29 = Sr/2 Switching Adjustment

Ctrl. Panel

F1

30 = Switching Status/Contamination Warning

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)	Ū	Test Input inverted	ENв	Encoder B		
A	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		
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	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		
\odot	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)				

