Fiber-Optic Cable Sensor

UF87PCV3 Part Number

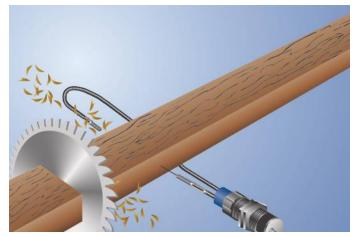


- Adaptable for glass fiber-optic cables: reflex and through-beam mode
- Large detection range

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	-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			
verload Protection yes				
Protection Class	Class			
Mechanical Data				
Setting Method	nod Potentiometer			
Housing Material	CuZn, nickel-plated			
Full Encapsulation	yes			
Degree of Protection	IP65			
Connection	M12 × 1; 4-pin			
Contamination Output				
PNP NO/NC switchable				
Connection Diagram No.	105			
Control Panel No. F2 F03				
Suitable Connection Equipment 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.

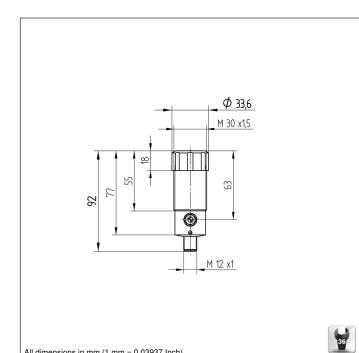


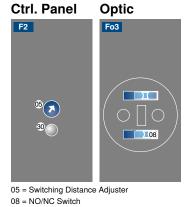
Complementary Products

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

Photoelectronic Sensors







30 = Switching Status/Contamination Warning

egen	d		PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected	ENBR5422	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	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	olors 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
۲	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
ENOR542	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow

All dimensions in mm (1 mm = 0.03937 Inch)

