Fiber-Optic Cable Sensor

UF66VCF3

Part Number

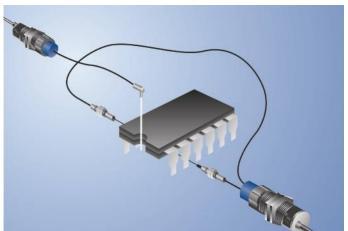


- Adaptable for glass fiber-optic cable
- Adjustable time delay
- Recognition of small parts
- Switching frequency: 5 kHz

Technical Data

rechnical 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	5 kHz		
Response Time	100 <i>μ</i> s		
On-/Off-Delay	01 s		
Temperature Drift	< 10 %		
Temperature Range	-1060 °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 switchable	•		
Connection Diagram No.	1013		
Control Panel No.	F3 Fo2		
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.

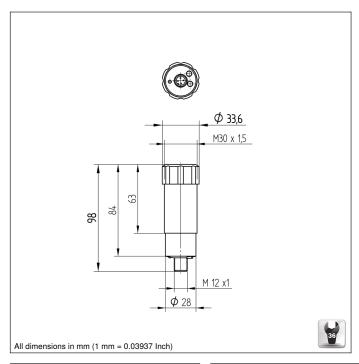


Complementary Products

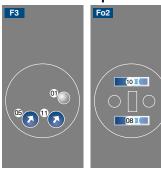
Glass Fiber-Optic Cable

PNP-NPN Converter BG2V1P-N-2M

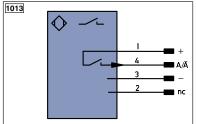




Ctrl. Panel Optic



- 01 = Switching Status Indicator
- 05 = Switching Distance Adjuster
- 08 = NO/NC Switch
- 10 = ON-Delay/OFF-Delay Switch
- 11 = ON-Delay/OFF-Delay Adjuster



Legen	d		PT	Platinum measuring resistor	ENARS	Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected	ENBRS	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		10)	W	Trigger Input	Amin	Digital output MIN
Ā	Switching Output (N	1C)	W -	Ground for the Trigger Input	Амах	Digital output MAX
V		10)	0	Analog Output	Аок	Digital output OK
V	Contamination/Error Output (N	1C)	0-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)		BZ	Block Discharge	SY OL	T 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	Colors 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
•	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
	Ethernet Gigabit bidirect, data lii	ne (A-D)		Input confirmation	PK	Pink
ENors422	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNY	Green/Yellow







