Fiber Optic Cable Sensor

UF55VC/TCH Part Number



- Adaptable for glass fiber optic cables: reflex and through beam mode
- Adjustable time delay
- Can be set for NC or NO operation
- Switching frequency: 20 kHz

Technical Data

Optical Data	
Range	500 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	20 kHz
Response Time	25 <i>µ</i> s
On-/Off-Delay	01 s
Temperature Drift	< 10 %
Temperature Range	-1060 °C
Switching Output Voltage Drop	< 2,5 V
PNP Switching Output/Switching Current	200 mA
NPN 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	Cable, 3-wire, 2 m
PNP NO/NPN NC switchable	
Connection Diagram No.	810
Control Panel No.	F3 Fo2
Suitable Mounting Technology No.	130
Suitable Fiber Optic Cable Adapter No.	01

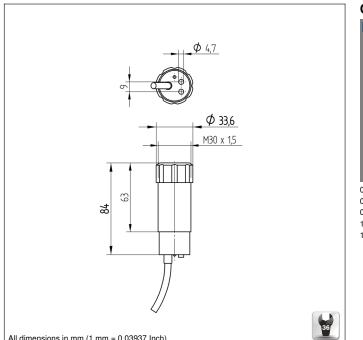
These sensors are equipped for use with glass fiber optic cables but can be used with or without one. The transmitter and receiver are located in a single housing. The sensor evaluates transmitted light reflected back from the object and the output is switched as soon as an object passes the selected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

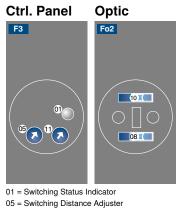


Complementary Products Glass Fiber Optic Cable

Photoelectronic Sensors







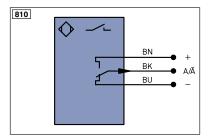
08 = NO/NC Switch

10 = ON-Delay/OFF-Delay Switch

11 = ON-Delay/OFF-Delay Adjuster

Legen	d	PŤ	Distingues ano security a security of	ENA	Encoder A	
	Supply Voltage +		Platinum measuring resistor	ENB	Encoder B	
+		nc	not connected	AMIN	Digital output MIN	
-	Supply Voltage 0 V	U	Test Input		Digital output MAX	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	Амах		
A	Switching Output (NO)	W	Trigger Input	Аок	Digital output OK	
Ā	Switching Output (NC)	0	Analog Output	SY In	Synchronization In	
V	Contamination/Error Output (NO)	0-	Ground for the Analog Output	SY OUT		
V	Contamination/Error Output (NC)	BZ	Block Discharge	OLT	Brightness output	
E	Input (analog or digital)	Awv	Valve Output	м	Maintenance	
Т	Teach Input	а	Valve Control Output +			
Z	Time Delay (activation)	b	Valve Control Output 0 V			
S	Shielding	SY	Synchronization		Wire Colors according to DIN IEC 757	
RxD	Interface Receive Path	E+	Receiver-Line	DIN IE	C 757	
TxD	Interface Send Path	S+	Emitter-Line	BK	Black	
RDY	Ready	÷	Grounding	BN	Brown	
GND	Ground	SnR	Switching Distance Reduction	RD	Red	
CL	Clock	Rx+/-	Ethernet Receive Path	OG	Orange	
E/A	Output/Input programmable	Tx+/-	Ethernet Send Path	YE	Yellow	
0	IO-Link	Bus	Interfaces-Bus A(+)/B(-)	GN	Green	
PoE	Power over Ethernet	La	Emitted Light disengageable	BU	Blue	
IN	Safety Input	Mag	Magnet activation	VT	Violet	
OSSD	Safety Output	RES	Input confirmation	GY	Grey	
Signal	Signal Output	EDM	Contactor Monitoring	WH	White	
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	ENAR542	Encoder A/Ā (TTL)	PK	Pink	
ENO RS42	Encoder 0-pulse 0-0 (TTL)	ENBR54Z	Encoder B/B (TTL)	GNYE	Green/Yellow	

All dimensions in mm (1 mm = 0.03937 Inch)



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