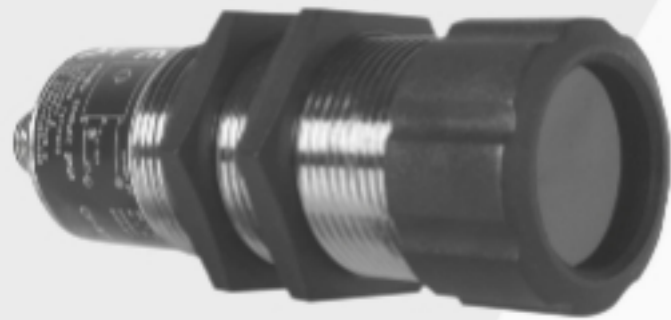


# UF55VC/TCH3

Part Number

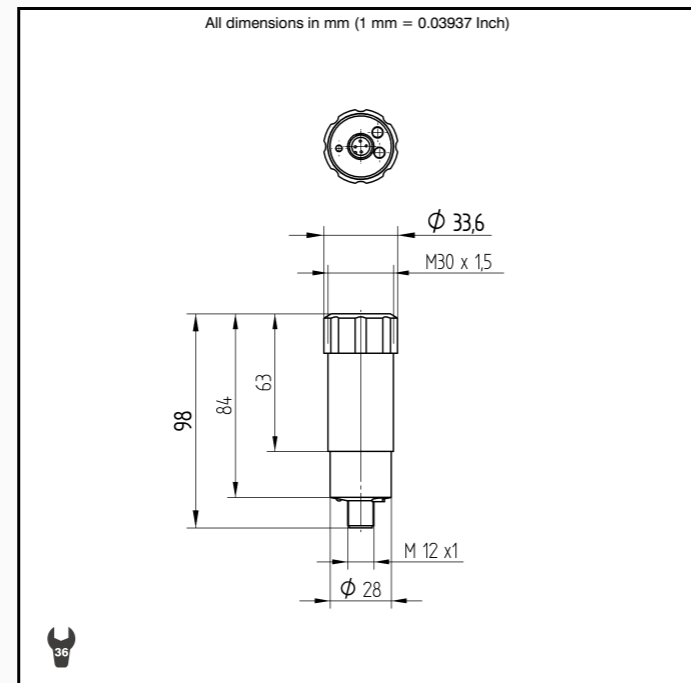


## Technical Data

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	10...30 V DC
Current Consumption (U <sub>b</sub> = 24V)	< 40 mA
Switching Frequency	20 kHz
Response Time	25 μs
Temperature Drift	< 10 %
Temperature Range	-10...60 °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
Mechanical Data	
Housing	BrasNicPlated
Full Encapsulation	yes
Protection Mode	IP 65
Connection	M 12x1

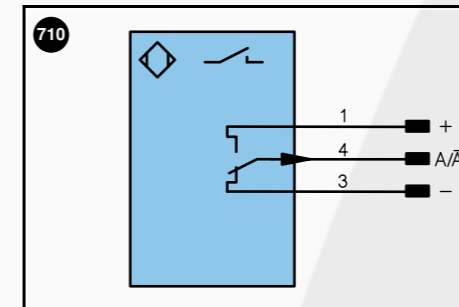
- **Adaptable for Glass Fiber Optic Cabel: Reflex and Through Beam Mode**
- **Adjustable Time Delay**
- **Can be set for NC or NO operation**
- **Switching Frequency: 20 kHz**

The transmitter and the receiver are integrated into a single housing. The sensor evaluates transmitted light reflected back from the object. 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. These sensors are equipped for use with glass fiber optic cabel. They can be used with or without glass fiber optic cabel.



Specifications are subject to change without notice  
28/02

Part Number	Plug Version
UF55VC/TCH3	
PNP NO/NPN NC switchable	●
Connection Diagram No.	710
Control Panel No.	F 3 Fo2
Suitable Plug No.	1
Suitable Fiber Optic Cabel Adapter	1



Legend		Wire colors according to DIN IEC 757
+	Power supply "+"	BK black
-	Power supply "0V"	BN brown
~	Power supply (AC Voltage)	RD red
A	Switching output (1,2,3...) / NO	OG orange
A	Switching output (1,2,3...) / NC	YE yellow
V	Contamination / Error output (NO)	GN green
V	Contamination / Error output (NC)	BU blue
E	Input (analog or digital)	VT violet
T	Teach input	GY grey
Z	Time delay (activation)	WH white
S	Shielding	PK pink
RxD	RS-232 receive path	GNYE green yellow
TxD	RS-232 send path	
U	Test input	
W	Trigger input	
O	Analog output (1,2,3,...)	
O-	Ground for the analog output	
BZ	Block discharge	
Aw	Valve output	
a	Valve control output "+"	
b	Valve control output "0V"	
SY	Synchronization	
E+	Receiver-Line	
S+	Emitter-Line	
⊕	Grounding	

## Accessories

- Mounting Bracket W30
- Glass Fiber Optic Cable
- Glass Disc GS2

## 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 Switch