## Fiber-Optic Cable Sensor

## UF55VC/TCH3

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 ( $\mathrm{T}=+25^{\circ} \mathrm{C}$ ) | 100000 h |
| Max. Ambient Light | 10000 Lux |
| Opening Angle | 12 。 |
| Electrical Data |  |
| Supply Voltage | 10...30 V DC |
| Current Consumption ( $\mathrm{Ub}=24 \mathrm{~V}$ ) | $<40 \mathrm{~mA}$ |
| Switching Frequency | 20 kHz |
| Response Time | $25 \mu \mathrm{~s}$ |
| On-/Off-Delay | $0 . . .1$ s |
| Temperature Drift | < 10 \% |
| Temperature Range | $-10 . . .60{ }^{\circ} \mathrm{C}$ |
| 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 | $<50 \mu \mathrm{~A}$ |
| 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 $\times 1 ; 4$-pin |
| PNP NO/NPN NC switchable | O |
| Connection Diagram No. | 710 |
| 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.

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


