

UF55VC/TCH

High-Performance Reflex / Fiber-Optic Cable Sensor

OPTICAL DATA

Range	500 mm
Switching Hysteresis	< 15 %
Light Source	Infrared Light
Wavelength	880 nm
Service Life (T = +25 °C)	100,000 h
Max. Ambient Light	10,000 Lux
Opening Angle	Dependent on fiber

ELECTRICAL DATA

Supply Voltage	10 ... 30 V DC
Current Consumption (U _b = 24 V)	< 40 mA
Switching Frequency	20 kHz
Response Time	25 µs
Temperature Drift	< 10 %
Temperature Range	-25 ... 60 °C
Switching Output Voltage Drop	< 1.5 V
PNP Switching Output/ Switching Current	200 mA
NPN Switching Output/ Switching Current	200 mA
Short Circuit Protection	Yes
Reverse Polarity Protection	Yes
Overload Protection	Yes

MECHANICAL DATA

Housing Design	Cylinder, M30 × 1.5
Housing Length	85 mm
Housing Material	Brass, nickel-plated
Full Encapsulation	Yes
Degree of Protection	IP65
Connection	Cable, 3-wire, 2 m
Fiber-Optic Connection	Compatible

OUTPUT FUNCTION

PNP Normally Open (NO)	Selectable
NPN Normally Open (NO)	Selectable
PNP Normally Closed (NC)	Selectable
NPN Normally Closed (NC)	Selectable
Timer (On/Off Delay)	0 ... 1 s

KEY ADVANTAGES

- Extremely high switching frequency of 20 kHz for ultra-fast processes.
- Universal adaptability with both NPN and PNP outputs in a single device.
- Robust nickel-plated brass housing suited for harsh industrial environments.
- Compatible with specialized glass fiber-optic cables for high-temp or tight spaces.
- Adjustable time delay (0 to 1s) directly on the sensor.