

01100 00110



AN ALL INCLUSIVE PLASTIC FIBER OPTIC SENSOR DFS11 Digital Fiber Optic Sensor





Intuitive OLED Display



Crosstalk Rejection of up to 8 sensors

10M

onics

- Programmable Output/Input configurations
- Combinable Dual Timers, with Latching and Reset capability, and Counter modes



For Complete Listing Visit: www.ttco.com

Digital Fiber Optic Sensor

OUT

01100

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AN ALL INCLUSIVE FIBER OPTIC SENSOR

Overview

WIDE VARIETY OF FIBERS Visit www.ttco.com for full listing.

AUTOSET (●)

Push to perform AUTOSET.

THRESHOLD/VALUE ADJUST ROCKER (VA)

1. Manually adjusts the threshold. 2. Alters programming parameters. Hold to scroll for numeric values.

MODE (

- 1. Tap to display sensor status screen.
- 2. Tap again to access parameters.

CONNECTION

4-Pin M8 connector or built-in cable.

Specifications

SUPPLY VOLTAGE & CURRENT

- 8-30 Vdc 28ma @ 24Vdc, 49ma @ 12Vdc Reverse polarity protected Transient spike protected

OUTPUT

- Configurable NPN, PNP or Push-Pull
- 150mA output current Short circuit & transient spike protected
- Saturation voltage: < 0.3Vdc @ 10mA < 2Vdc @150mA
- INPUT
- Configurable active high/low
- Configurable function: Remote setting or commands, Interrogate, Gate, Dark-On, Lockout, and Latch Reset

POWER-UP DELAY

· 300ms. No output pulse on power-up.

RE	SPONSE	TIME	(Depende	ent o	n M	lode
		-				

•	UHS	50µs
٠	HS	125µs
٠	STD	250µs
٠	HR	1ms

- HR LR 4ms
- ULR 16ms

REPEATABILITY (Dependent on Mode)

- UHS 12µs. HS, STD, HR, LR, ULR (15.635µs) Asynchronous crosstalk enabled (31.25µs)

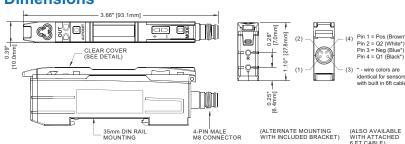
MAXIMUM RANGE

Opposed	Mode		
 UHS 	20in	(508mm)	
• HS	28in	(711mm)	
 STD 	32in	(813mm)	
• HR	47in	(1,193mm)	
• LR	60in	(1,524mm)	
 ULR 	75in	(1,905mm)	
Proximity	Mode	(,	
• UHS	8in	(203mm)	
 HS 	11in	(279mm)	
 STD 	13in	(330mm)	
• HR	16in	(406mm)	
• LR	21in	(533mm)	
 ULR 	28in	(711mm)	
When an	li-crossta	alk is enabled ma:	ximum

n range specifications are reduced 30%. Note: Opposed tests utilized: PF-Z-78TL

Proximity tests utilized: PFD-Z-78M64

Dimensions



FIBER RELEASE CLAMP

Locks fibers in place.

OUTPUT LEDS

1. Illuminates solid when output is ON. 2. Flashes when output is overloaded

ADVANCED DIAGNOSTIC OLED DISPLAY See next page for complete listing.

INPUT FUNCTION LIGHT RING

- 1. Illuminates when input is activated. 2. Illuminates when synchronous crosstalk communication is received.
- Note: Only available on connector models.

LIGHT IMMUNITY

High immunity to most ambient light, including high efficiency lighting and high intensity strobes.

MUTUAL INTERFERENCE REJECTION

Asynchronous: Two sensor max. responds to selected A or B Channel. Synchronous: Up to eight sensors via one wire interface

COMBINABLE DUAL TIMERS

- On-Delay, Off-Delay, One-Shot, Motion
- Latching function Timer range: 0.1 0.9ms, 1ms 9,999ms

LED LIGHT SOURCE

• 4 element LED, Red = 660nm

DISPLAY

96 X 16 white dot matrix OLED Display numerical range depended on processing

٠	UHS	-	1,023
٠	HS	-	2,047
٠	STD	-	4,095
٠	HR	-	16,383
٠	LR	-	32,767
٠	ULR	-	65,535

LED INDICATORS

Output: Red LED. Illuminates when output is ON. Flashes when output is overloaded. Connector: Red LED, illuminates when input wire is activated

CONNECTIONS

• M8, 4-pin · Attached cable: 4-wire 6ft (1.8m)

OPERATING TEMPERATURE

5°C to 55°C (41°F to 131°F) - Electrical.

HOUSING CONSTRUCTION

Chemical resistant, high-impact polycarbonate

RATINGS & CERTIFICATIONS



Product subject to change without notice





while providing real-time feedback that will advise poor conditions that begin to degrade sensor performance.

OPEN

And it's always right-side-up!



Lock Mode

Intuitive on-screen menu to easily navigate through a variety of setting including Lock Mode to prevent unauthorized tampering.



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Features

Simple Start Get going quickly with a

ALO R' & LIS

push of one button. The sensor default settings will do the rest.

Snap-Lock

Anti-Crosstalk

Link up to eight sensors

together without unwanted

overlaping signals between

communication channels.

Holds the fibers securely with no special tools.

Move the locking mechanism forward to open, insert the fibers, and then slide it back down to create a CLOSED

Quickly set up and precisely monitor applications,



- wire colors are identical for sensors with built in 6ft cables