Specifications

SUPPLY VOLTAGE & CURRENT

- 12-24 Vdc±10%
- 40mA @ 12Vdc
- Reverse polarity protected
- Transient spike protected

OUTPUT

- NPN or PNP (dependent on model)
- 100mA output current
- Short circuit & transient spike protected
- NPN = Saturation voltage: 0.4Vdc @16mA < 1.0Vdc @50mA
- PNP = Saturation voltage: 1.0Vdc @16mA < 2.0Vdc @100mA

RESPONSE TIME (Dependent on Mode)

- Standard 1ms
- Long Range 2ms
- Fast 300µs
- High Speed 100µs

Note: High Speed Mode not useful at close range; values over 400 may cause chatter

REPEATABILITY

• 100µs

MAXIMUM RANGE

Mode	Proximity	Through-Beam
High	11.0in, 280mm	19.2in, 488mm
Fast	18.0in, 458mm	38.4in, 975mm
Standard	20.0in, 512mm	43.2in, 1097mm
Long	21.5in, 549mm	46.1in, 1170mm

Note: Opposed tests utilized: PF-Z-78TL Proximity tests utilized: PFD-Z-78M64

DISPLAY

 Two 4-digit display values: threshold (green); signal (red).

LIGHT IMMUNITY

- High immunity to most ambient light, including high efficiency lighting and high intensity strobes.
- 2000lx (sunshine), 1000lx (incandescent)

EMMITTER LIGHT SOURCE

- RED 635nm
- Light source power can be adjusted via button 100%, 50%, 25%, 12%.

LED INDICATORS

Output: Red LED..
Illuminates when output is ON.

CONNECTIONS

- M8. 3-pin
- Attached cable: 3-wire 6.5ft (2.0m)

OPERATING TEMPERATURE

- -10°C to 50°C (14°F to 122°F) Operational
- -20°C to 70°C (-4°F to 158°F) Storage

HUMIDITY

• 35~85%RH,storage: 35~85%RH

HOUSING CONSTRUCTION

 Chemical resistant, high-impact polycarbonate PC+ABS

RATINGS & CERTIFICATIONS

IP6

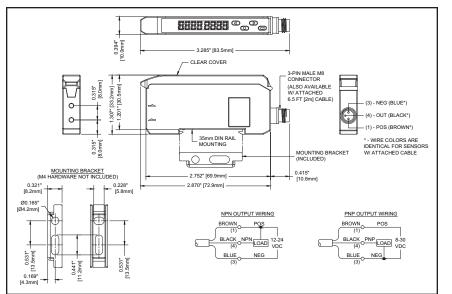
• CE

CE

RoHS Compliant Product subject to change without notice

Dimensions

Plastic Fiber Sensor

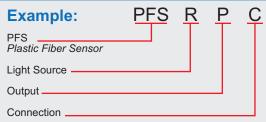


PFS - Instructions

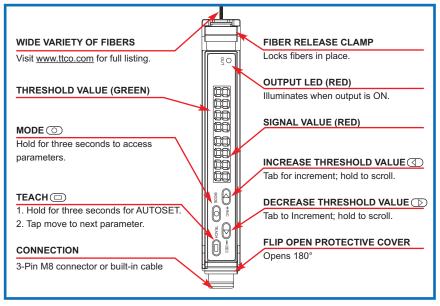


1. Select Sensor: PFS
Plastic Fiber Sensor

- 2. Select Light Source:
- 3. Select Output:
 P = PNP
 N = NPN
- 4. Select Connection:
 Blank = 6ft cable (1.8m)
 C = 3-pin M8 connector



Features



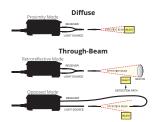
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Quick Start

Establish one of the following conditions:

Diffuse: Reflect light off object.

Through-Beam: Remove object from light beam path.



2 Press TEACH button:

Pressing the TEACH button sets the sensors threshold to the desired level.

3. Verify setup. If needed, the threshold can be altered by tapping up or down.



Programming will time out after five seconds if no action is taken.



Mounting on a DIN Rail

- **1.** Hook the DIN rail clip on the bottom of the sensor under the edge of the DIN rail.
- **2.** Gently push and pivot the sensor onto the DIN rail, pressing until it snaps into place.

Installing the Fibers

- 1. Open the dust cover.
- Move the fiber clamp forward to unlock it
- 3. Insert the fiber(s) into the fiber port(s) until they stop.
- 4. Move the fiber clamp backward to secure the fiber(s).
- 5. Close the dust cover.

Range

Mode	Proximity	Through-Beam
High	11.0in, 280mm	19.2in, 488mm
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Note: Opposed tests utilized: PF-Z-78TL Proximity tests utilized: PFD-Z-78M64

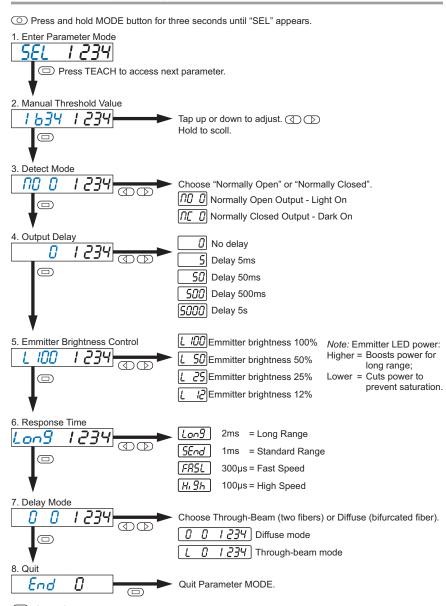
Caution

- · Ensure power is off before connecting device.
- When encountering noising power supply environments, ground sensor's negative wire to chassis ground.

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- · Power-on delay is 500ms.
- · Avoid excessive capacitive loads.
- · Avoid routing cable near high voltage wiring.
- · Keep away from dust, dirt, and vapor.
- Do not allow direct contact with water, oil, grease, or organic solvents, such as thinners.

Accessing Parameters



At anytime to go to top.

Factory Reset

Press both adjusts buttons to reset to default value.