



The FS Fork Sensor is simple to use. The metallic housing is ultra rugged and comes in a wide range of gap sizes. The fork style design is easy to align and simple to adjust.

- 10mm wide allows for mounting in narrow spaces.
- Fast response time for accurate position.
- Detects objects as small as 0.5mm.
- Quick setup.
- No alignment needed of transmitter and receiver.
- Signal margin indicator.
- Robust metal housing, epoxy encapsulated, IP67 rated.

How to Specify

- 1. Select Sensor:**
FS Fork Sensor
- 2. Select Sensing Distance (mm):**
20, 30, 50, 80, 100, 120, 180, 220
- 3. Select Output Configuration:**
P = PNP
N = NPN
- 4. Select Connection:**
C = 3-Pin M8 Male Connector

Example: FS 80 N C

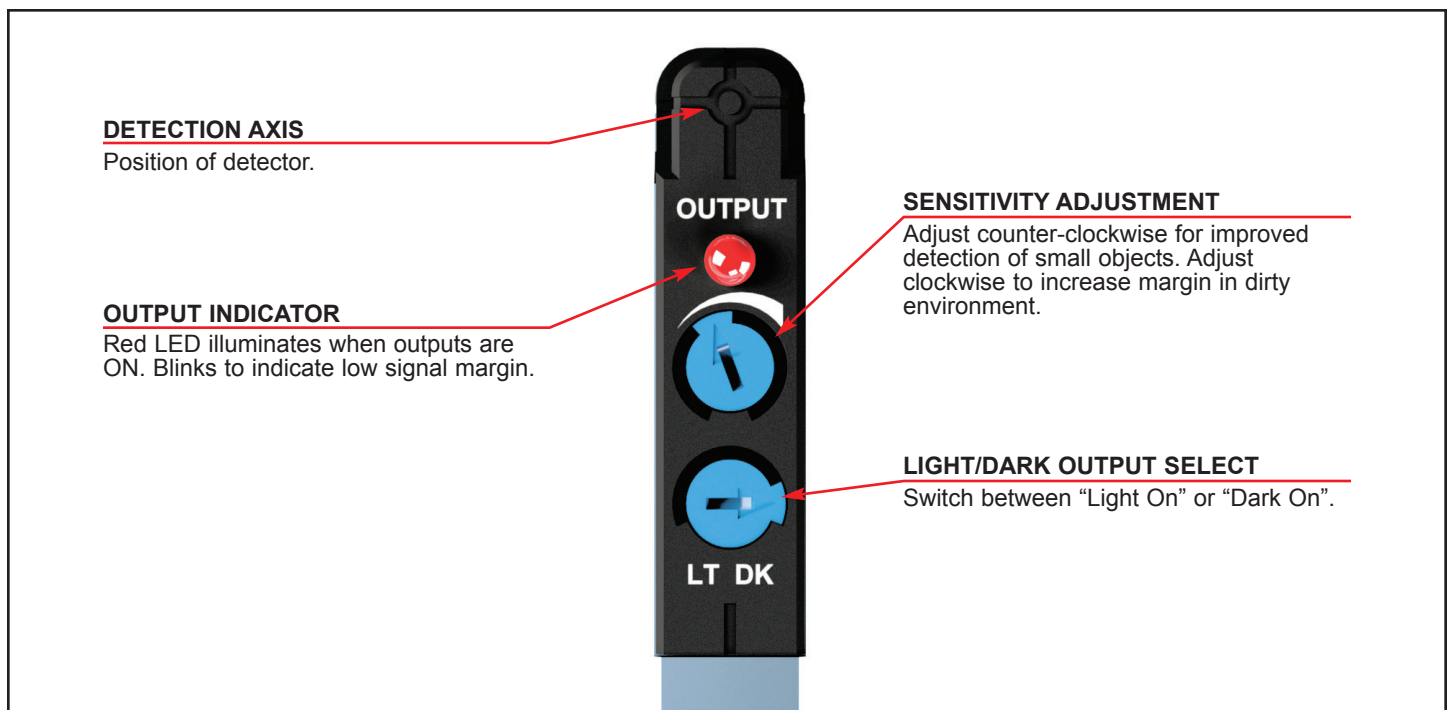
Fork Sensor _____

Sensing Distance (mm) _____

Output Configuration _____

Connection _____

Features



Specifications

SUPPLY VOLTAGE & CURRENT

- 8-30 Vdc
- Current 45mA
- Reverse polarity protected
- Transient spike protected

OUTPUT

- 150mA output current
- Short circuit & transient spike protected
- Saturation voltage: < 0.3Vdc @ 10mA
< 2Vdc @ 150mA
- NPN or PNP based on model.

POWER-UP DELAY

- 300ms. No output pulse on power-up.

RESPONSE TIME

- 240µs (120µs repeatability)

MINIMUM SIZE OBJECT DETECTION*

- 0.030" (0.75mm) at maximum margin (fully clockwise)
- 0.012" (0.30mm) at minimum allowed margin

GAP RANGE

- 20mm to 220mm (determined by model)

ADJUSTMENTS

- Sensitivity
- Light/Dark output select

LIGHT IMMUNITY

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

LED INDICATORS

- Red output LED. Illuminates when output is "ON". Blinks to indicate low signal margin.

LED LIGHT SOURCE

- LED, RED = 660nm, IR = 830nm (IR only available for FS180 & FS220 models).

CONNECTIONS

- M8, 3-pin

OPERATING TEMPERATURE

- -20°C to 70°C (-4°F to 158°F)

HOUSING CONSTRUCTION

- 10mm wide anodized aluminum housing
- Chemical resistant, high-impact ABS & PC Human interface
- RX Lens: acrylic
- Epoxy encapsulated

RATINGS & CERTIFICATIONS

- IP67
- CE
- UL pending

* - The smallest diameter object that can be detected when passed slowly through the sensing beam @ the midpoint between Fork emitter and Fork detector

Accessories



GEC3-6
3-Pin 6ft (1.8m) Cable



RoHS Compliant
Product subject to change without notice

Connections and Dimensions

Fork Sensor

