# QS18 Series Clear Object Detection Sensor

### Coaxial Clear Object Detection

- 2 | Fast. Reliable. Easy-to-Use
- 3 | Applications
- 4 | Specifications and Ordering







IP67 rated, **ABS Housing** 

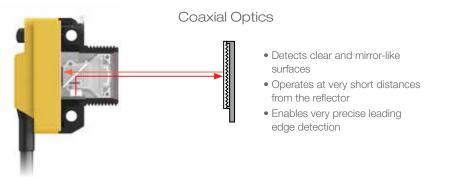


Response speed of 400 µs ON/OFF



Coaxial optics and small spot size for applications where space is limited

Banner's new ClearTracking algorithm provides reliable operation by compensating for dust build-up and ambient temperature changes





#### Simple Pushbutton Teach

1. Align the sensor with the reflector 2. Push and hold the button for 2 seconds 3. Begin inspection



# Applications

#### Accurate Tracking of Clear PET Bottles

#### Application Challenge

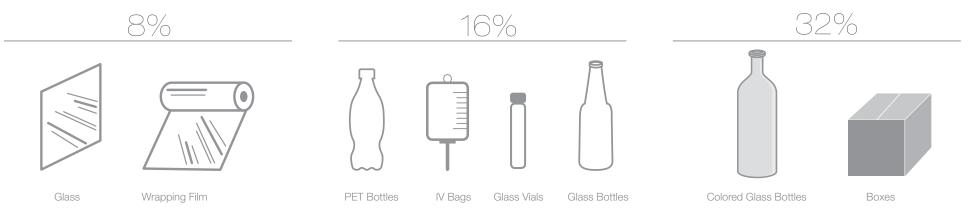
Identifying accumulations and gaps on the line is essential to ensuring a steady flow of bottles. Many commonly used sensing technologies cannot consistently detect clear bottles at high speeds.

#### Solution

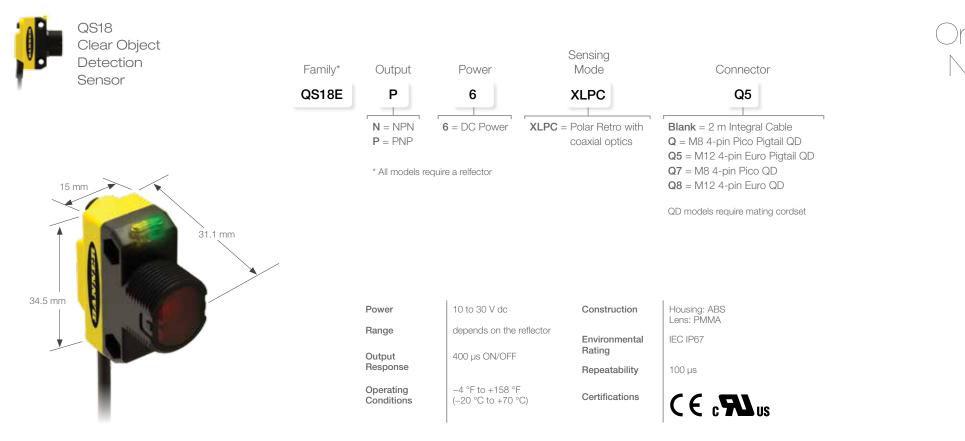
The QS18E features a polarized coaxial optical design to ensure reliable detection of clear targets and has a fast 400 microsecond response time. The **ClearTracking** algorithm automatically compensates for the effects of dust and ambient temperature changes.

## Three User-Selectable Thresholds

Optimize the sensor's performance to detect small changes in the amount of light received







### Accessories

#### Brackets



SMBQ4XFA Includes 3/8" bolt for mounting SMBQ4XFAM10

Includes 10 mm bolt for mounting

#### SMBQ4XFAM12 Clamps directly onto industry standard

bracket systems of 1/2" or 12 mm rods

#### Reflectors

Size (mm)	Range (m)	Model
92 x 92	3.0	BRT-92X92C
51 x 51	2.2	BRT-51X51BM
60 x 40	2.2	BRT-60X40C
50 x 50	2.2	BRT-2X2LVC
60 x 40	1.9	BRT-60X40C-PS
40 x 19	1.3	BRT-40X19A
75 x 75	0.5	BRT-THG-3X3

5
Model

For right-angle models add RA to the model

number. Example: MQDC-406RA

Cordsets

4-Pin Threaded M12/Euro-Style

Туре

Length	Model	Туре	Length	Model	
2 m (6 ft)	MQDC-406		2 m (6 ft)	PKG4M-2	
5 m (15 ft)	MQDC-415	4-Pin Threaded M8/Pico-Style	5 m (15 ft)	PKG4M-5	
9 m (30 ft)	MQDC-430		9 m (30 ft)	PKG4M-9	
15 m (50 ft)	MQDC-450	For right-angle m	For right-angle models change <b>G</b> to <b>W</b> in the		

For right-angle models change G to W in the model number. Example: PKW4M-2



1-888-373-6767 www.bannerengineering.com

