# QS18 Series Clear Object Detection Sensor

### Coaxial Clear Object Detection

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Multiple connection options available



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



- Detects clear and mirror-like
- Operates at very short distances
- Enables very precise leading



#### 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



ONDO		
Includes 3/8" bolt		
for mounting		
SMBQ4XFAM10		
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SMB04XFA

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

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Length	Model

MQDC-406 MQDC-415

MQDC-430

MQDC-450

2 m (6 ft)

5 m (15 ft)

9 m (30 ft)

For right-angle models add RA to the model

number. Example: MQDC-406RA

15 m (50 ft)

Cordsets

4-Pin Threaded M12/Euro-Style

Туре

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Туре	Length	Model
4-Pin Threaded M8/Pico-Style	2 m (6 ft)	PKG4M-2
	5 m (15 ft)	PKG4M-5
	9 m (30 ft)	PKG4M-9

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

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