Q4X

Versatile, Rugged, Laser Distance Sensor

Superior Performance: Reliably detects distance changes as small as 1 mm.

Versatile
Reliable **sensing range of 25 to 300 mm** across a variety of target colors, materials and surfaces with multiple sensing modes in one device.

Durable
Robust housing rated to IP69K with **FDA-grade stainless steel** resists mechanical impact, over tightening and extreme vibration.

Easy to Use
Simplified user experience with a **clear distance readout** from the angled four-digit display and easy setup with responsive buttons.
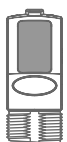
BANNER ®
more sensors, more solutions
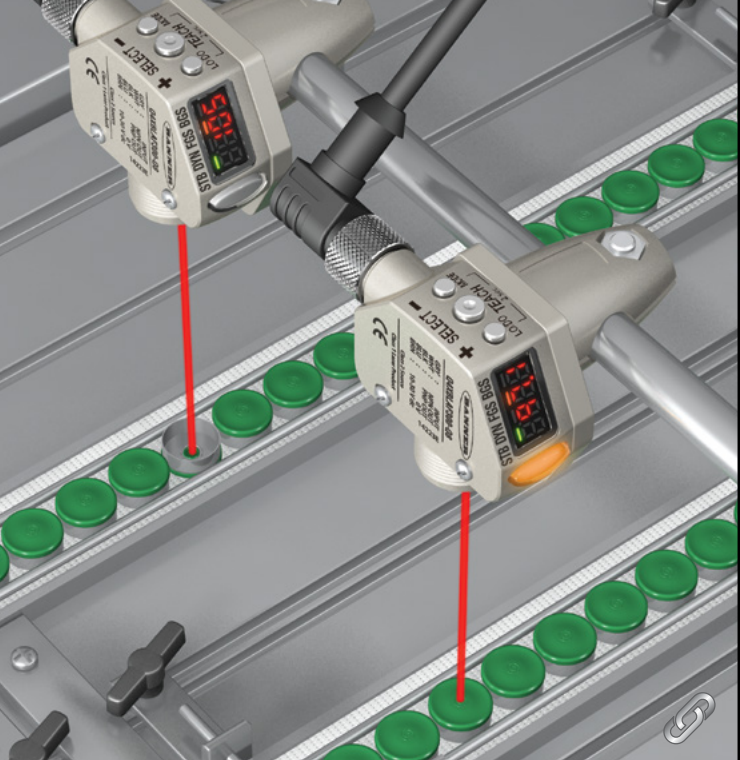
Q4X Laser Distance Sensor

Performance

- Solves difficult distance-based applications including black foam on black plastic, black rubber in front of metal, multicolor packaging and targets of all colors

- Used for presence/absence or orientation detection

Can detect a 1 mm target at a range of 25 to 50 mm

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LED Output
Indicator
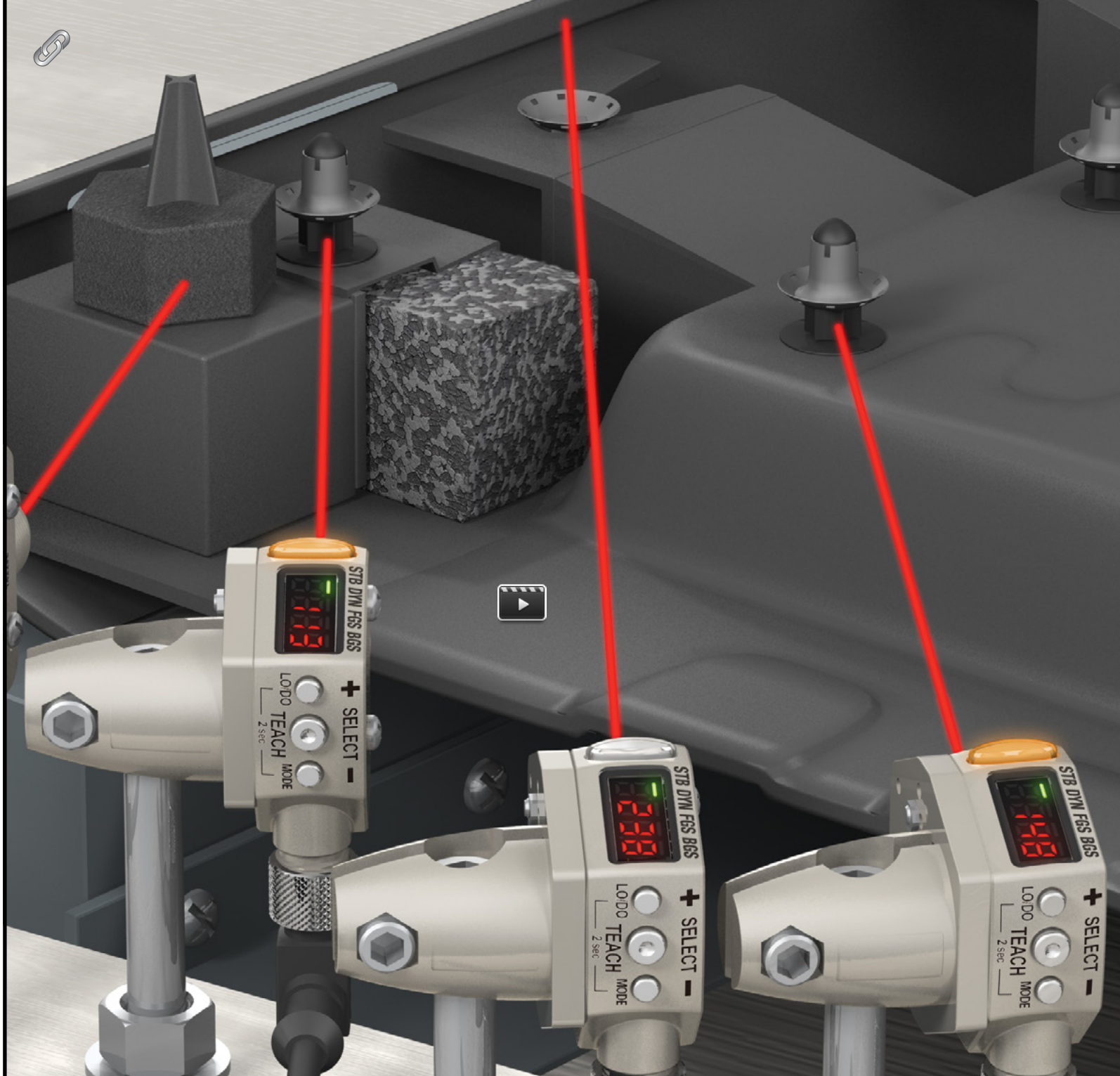
Angled Four-Digit Display
- Shows distance from sensor to target for clear measurement display
- Easy to read at all angles
- Display can be inverted for easy mounting, which allows readability from a variety of angles

Three tactile buttons for easy setup

316L Stainless Steel Housing

Stability and Active Teach
- STB = Stability: Signal strength indication
- DYN = Dynamic background suppression
- FGS = One-point window (foreground suppression)
- BGS = One-point background suppression

Visible decimal point for clear measurement readout under 100 mm

Q4X Laser Distance Sensor

Family	Housing Style	Output	Mode	Range		Connector
Q4X	**T**	**B**	**LAF**	**300**	—	**Q8**

T = 18 mm Threaded Barrel

B = Bipolar

LAF = Laser Adjustable-Field

300 = 25-300 mm

Q8 = 5-pin Integral QD

QD models require mating cordset
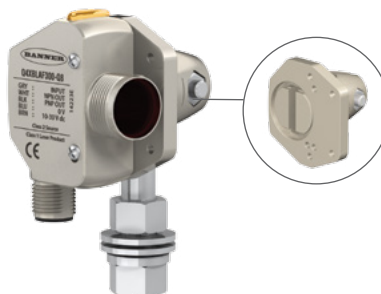
18.0 mm

57.4 mm

ø 18.0 mm

44.3 mm

- Best in class excess gain: Detection of 1% black targets out to 300 mm
- User selectable output response time from 1.5 to 50 milliseconds
- Rated to IP67, IP68 and IP69K
- CE and UL approved
- Patent pending

Accessories

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

5-Pin M12/ Euro-Style Cordsets
Straight connector models listed; for right-angle, add **RA** to the end of the model number (example, **MQDC1-506RA**)

MQDC1-506
2 m (6.5')
MQDC1-515
5 m (15')
MQDC1-530
9 m (30')

5-Pin M12/ Euro-Style Washdown Cordset
Straight connector models only

MQDC-WDSS-0506
2 m (6.5')
MQDC-WDSS-0515
5 m (15')
MQDC-WDSS-0530
9 m (30')

Versatile, Rugged Laser Measurement Sensor

Superior Performance: Reliably detects sub-millimeter distance changes.

Versatile
Continuous measurement of **challenging targets** from dark to reflective, out to 300 mm.

Durable
Robust housing rated to IP69K with **FDA-grade stainless steel** resists mechanical impact, over tightening and extreme vibration.

Easy to Use
Simplified user experience with a clear **analog (V or mA) or distance (mm)** readout from the angled four-digit display and easy setup with responsive buttons.

analog

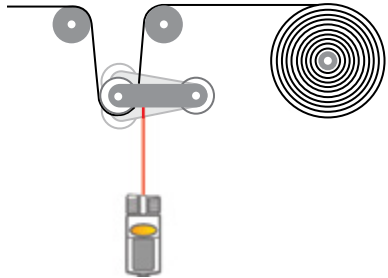**BANNER** ®
more sensors, more solutions

Q4X Laser Measurement Sensor

Performance

- Solves difficult measurement applications with difficult targets, including black rubber, foam, metal or plastics of any color
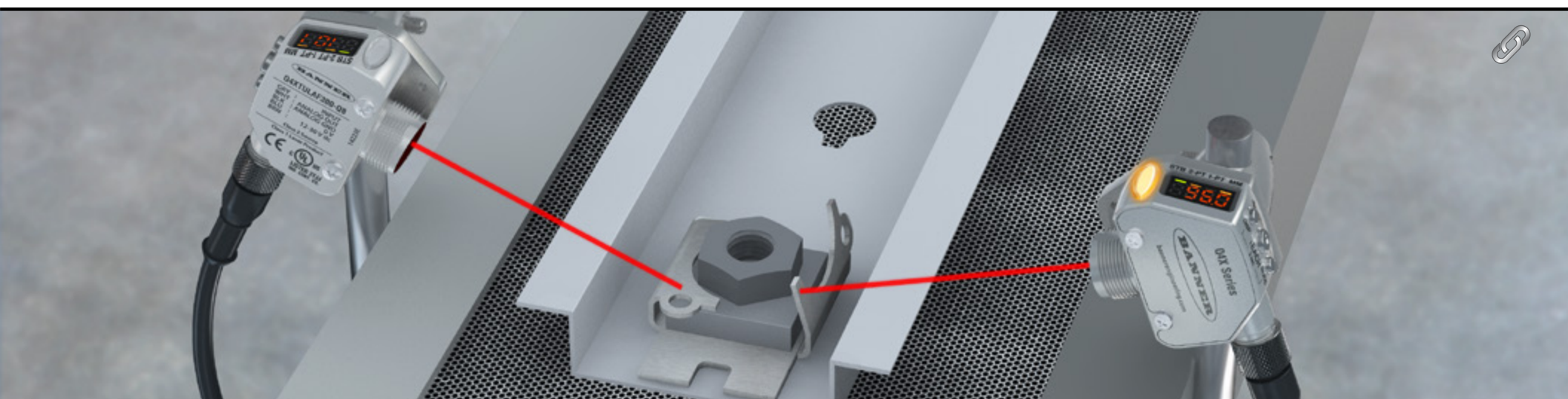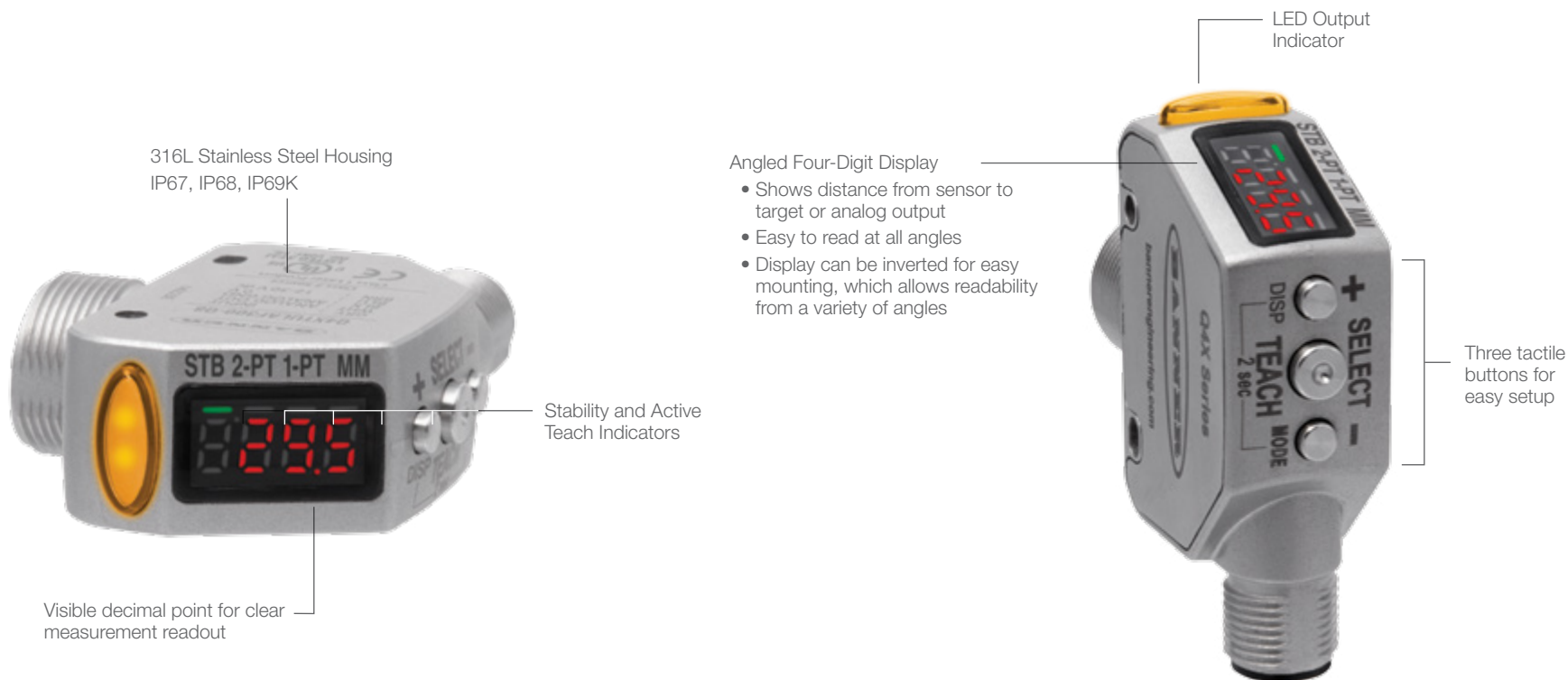

Detects sub-millimeter changes in size or position

Applications

- Fill level indication (this page)
- Part positioning (opposite page)
- Roll diameter
- Loop control
- Thickness/height verification
- Many other challenging applications

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BANNER®

316L Stainless Steel Housing
IP67, IP68, IP69K

STB 2-PT 1-PT MM

Stability and Active
Teach Indicators

Visible decimal point for clear
measurement readout

LED Output
Indicator

Angled Four-Digit Display
- Shows distance from sensor to
  target or analog output
- Easy to read at all angles
- Display can be inverted for easy
  mounting, which allows readability
  from a variety of angles

Three tactile
buttons for
easy setup

Q4X Laser
Measurement Sensor

18.0 mm

57.4 mm

ø 18.0 mm

44.3 mm

Patent pending

Family	Housing Style	Output*	Mode	Range		Connector
Q4X	**T**	**U**	**LAF**	**300**	—	**Q8**

T = 18 mm Threaded Barrel

U = 0-10 V
I = 4-20 mA

LAF = Laser Adjustable-Field

300 = 25-300 mm
100 = 25-100 mm

Q8 = 5-pin Integral QD

QD models require mating cordset

* Some models may not be available at time of printing. Call or check website for the latest model information.

Accessories

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

5-Pin M12/ Euro-Style Cordsets
Straight connector models listed; for right-angle, add **RA** to the end of the model number (example, **MQDC1-506RA)**

MQDC1-506	2 m (6.5')
MQDC1-515	5 m (15')
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