

Q2X Laser Measurement Sensor



Long-Range Sensing in a Miniature Housing

- Measure out to 3 m, the industry's longest sensing range for a compact form factor
- Simplify machine design with miniature, lightweight sensor
- Reduce and simplify inventory by stocking one sensor that offers multiple teach modes

Small Size, Powerful Sensing



Reliably Detect Challenging Targets at Long Range

- Best-in-class sensing range—detects targets up to 3 meters away
- Sense the most challenging targets like dark totes, shiny poly bags, or clear bottles with a powerful infrared laser with best-in-class excess gain
- Infrared laser with large spot size—ideal for bin-fill applications, in which surfaces are uneven, with peaks and valleys

Simplify Machine Design with Miniature Housing

- Install in space-constrained locations by leveraging its compact size
- Due to its light weight, robot arms or other equipment will not be over-encumbered

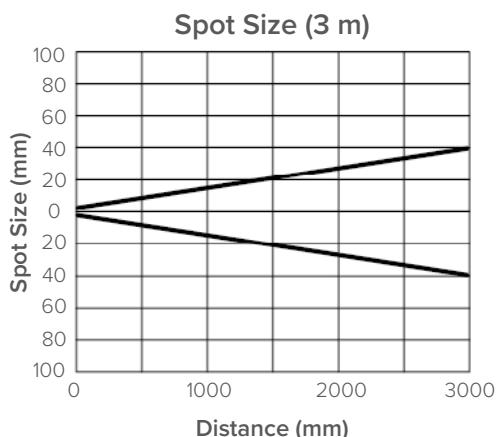
Reduce Inventory While Serving Many Applications

- Solve many application problems by consolidating to one sensor model with the array of teach modes including background suppression, window mode, and dual mode
- Integrate easily into most control systems and access measurement values, delay timers, and advanced diagnostics via IO-Link®
- The PulsePro output can be directly integrated with Banner Pro lights to provide real-time visual feedback for machine operators, without using a PLC

Q2X Laser Measurement Sensors

Series	Output	Sensing Mode	Range	Sensing Beam	Connector				
Q2X	K	LAF	3	IR	Q5				
K = Dual discrete with IO-Link					Q = 150 mm (6 in.) 4-pin M8 pigtail				
LAF = Laser adjustable-field					Q5 = 150 mm (6 in.) 4-pin M12 pigtail				
3 = 3 m					IR = Infrared				

Specifications



Power	12 to 30 V DC
Sensing Range	20 mm to 3 m
Response Speed	Fast: 33 ms Medium: 100 ms Slow: 500 ms
Operating Conditions	-20 to +50 °C (-4 to +122 °F)
Environmental Rating	IP67
Construction	Housing: ABS Lens cover: PVC
Certifications	Industrial Control Equipment TJJ

Accessories



SMBQ2XA
Right-angle bracket



SMBQ20FA
Bracket kit for 10 mm (3/8 in)
rod bracket systems



M12 Cordset
Straight connector
models listed; for right-
angle models, add RA to
the end of model number
(example, MQDC-406RA)

4-Pin
MQDC-406
2 m (6.5')
MQDC-415
5 m (15')
MQDC-430
9 m (30')



M8 Cordset
Straight connector
models listed; for right-
angle models, change G
to W (example, PKW4M-2)

4-Pin
PKG4M-2
2 m (6.5')
PKG4M-5
5 m (15')
PKG4M-9
9 m (30')



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