

WORLD-BEAM® QS30 Diffuse-Mode Laser Sensor



Datasheet



- Visible laser beam for diffuse sensing
- Available with Class 1 or long-range Class 2 laser
- Excellent optical performance throughout sensing range, even close up
- Easy-to-set Expert-style TEACH options¹ including Static, Dynamic, and Single-Point programming plus manual adjustment for fine-tuning
- Easy-to-read operating status indicators, with 8-segment bargraph display
- Bipolar discrete outputs, PNP, and NPN
- Selectable 30 millisecond OFF-delay
- Models available with 2 m or 9 m (6.5 ft or 30 ft) cable or integral quick-disconnect
- Compact housing, mounting versatility – popular 30 mm threaded nose or side-mount



WARNING: Not To Be Used for Personnel Protection

Never use this device as a sensing device for personnel protection. Doing so could lead to serious injury or death. This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition.

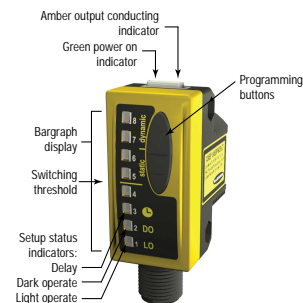
Models

Models ²	Laser Class	Range	Spot Size at Focus	Connection
QS30LD	Class 1	400 mm (16 in)	Approx. 1 mm at 400 mm (0.039 in at 16 in)	2 m (6.5 ft) unterminated 5-wire cable
QS30LDQ				Integral 5-pin M12/Euro-style male quick disconnect (QD)
QS30LDL	Class 2	800 mm (32 in)	Approx. 1 mm at 800 mm (0.039 in at 32 in)	2 m (6.5 ft) unterminated 5-wire cable
QS30LDLQ				Integral 5-pin M12/Euro-style male quick disconnect (QD)

QS30 Laser Diffuse Overview

The QS30 is an easy-to-use, high-performance laser sensor whose many configuration options make it suitable for demanding applications. It provides high-performance sensing in low-contrast applications at relatively long range. It features static, dynamic and single-point TEACH-mode programming, in addition to manual fine adjustment, remote programming and security lockout options. A SETUP mode also may be used to change the sensor's output response.

The sensor features two identically configured outputs, one each NPN and PNP. The sensor's compact housing has a large, easy-to-see bar graph display plus bright LEDs for easy programming and status monitoring during operation. The sensor can be side-mounted, using its integral mounting holes, or front-mounted, via its 30 mm threaded barrel.



¹ U.S. Patent #5,808,296

² To order the 9 m (30 ft) cable models, add the suffix "W/30" to the model number of any cabled sensor (for example, QS30LD W/30). A model with a QD connector requires a mating cable.

