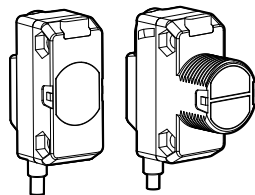


WORLD-BEAM® QS18 Series Sensor



Instruction Manual

Miniature Self-Contained Photoelectric Sensors in Universal Housing



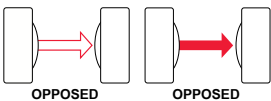
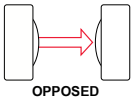
- Easily fits (or retrofits) almost any mounting situation
- Exceptional optical performance, comparable to larger “MINI-style” or barrel sensors
- 10 V dc to 30 V dc operation, with complementary (SPDT) NPN or PNP outputs, depending on model
- Bright LED operating status indicators are visible from 360°
- Rugged sealed housing, protected circuitry
- Models available with or without 18 mm threaded “nose”
- Less than 1 millisecond output response for excellent sensing repeatability
- Choose 2 m (6.5 ft) or 9 m (30 ft) cable or 150 mm (6 inch) Pico-style cabled QD



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.

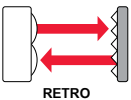
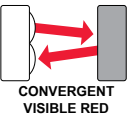
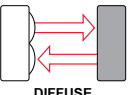
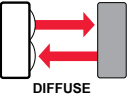
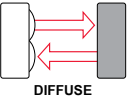
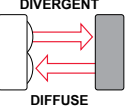
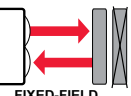
Models

Model ¹	Opposed Mode	Range	Output
QS186EV (624 nm Visible red)		20 m (66 ft)	—
QS186E (940 nm Infrared)			—
QS18VN6R			NPN
QS18VP6R			PNP
QS186EB (940 nm Infrared)		3 m (10 ft)	—
QS18VN6RB			NPN
QS18VP6RB			PNP
Model ¹	Polarized Retroreflective Mode	Range	Output
QS18VN6LP		3.5 m (12 ft)	NPN
QS18VP6LP			PNP

¹

- To order the 9 m (30 ft) PVC cable model, add the suffix “W/30” to the cabled model number. For example, QS186E W/30.
- To order the 4-pin M12/Euro-style integral quick disconnect model, add the suffix “Q8” to the model number. For example, QS186EQ8.
- To order the 4-pin M8/Pico-style integral quick disconnect model, add the suffix “Q7” to the model number. For example, QS186EQ7.
- To order the 150 mm (6 in) PVC cable model with a 4-pin M12/Euro-style quick disconnect, add the suffix “Q5” to the model number. For example, QS186EQ5.
- To order the 150 mm (6 in) PVC cable model with a 4-pin M8/Pico-style quick disconnect, add the suffix “Q” to the model number. For example, QS186EQ.
- Models with a quick disconnect require a mating cordset.



Model ¹	Retroreflective Mode	Range	Output
QS18VN6LV	628 nm Visible red  RETRO	6.5 m (21 ft)	NPN
QS18VP6LV			PNP
Model ¹	Convergent Mode	Range	Output
QS18VN6CV15	630 nm Visible red  CONVERGENT VISIBLE RED	16 mm (0.63 in)	NPN
QS18VP6CV15			PNP
QS18VN6CV45		43 mm (1.7 in)	NPN
QS18VP6CV45			PNP
Model ¹	Diffuse Mode	Range	Output
QS18VN6D	940 nm Infrared  DIFFUSE	450 mm (18 in)	NPN
QS18VP6D			PNP
QS18VN6DL		600 mm (24 in)	NPN
QS18VP6DL			PNP
QS18VN6DVS (Diffuse, Visible red)	630 nm Visible red  DIFFUSE	250 mm (10 in)	NPN
QS18VP6DVS (Diffuse, Visible red)			PNP
QS18VN6DB (Diffuse, wide)	 DIFFUSE	450 mm (18 in)	NPN
QS18VP6DB (Diffuse, wide)			PNP
Model ¹	Divergent Mode	Range	Output
QS18VN6W (Divergent, Infrared)	940 nm Infrared  DIVERGENT DIFFUSE	100 mm (4 in)	NPN
QS18VP6W (Divergent, Infrared)			PNP
Model ¹	Fixed Field Mode	Range	Output
QS18VN6FF50	630 nm Visible red  FIXED-FIELD	50 mm (2 in)	NPN
QS18VP6FF50			PNP
QS18VN6FF100		100 mm (4 in)	NPN
QS18VP6FF100			PNP
QS18VP6FF125		125 mm (5 in)	PNP
QS18VN6FF150		150 mm (6 in)	NPN
QS18VP6FF150			PNP
Model ¹	Plastic Fiber Optic Mode	Range	Output
QS18VN6FP	660 nm Visible Red  PLASTIC FIBER	Range varies by sensing mode and fiber optics used	NPN
QS18VP6FP			PNP