

## WORLD-BEAM<sup>®</sup> Q12

Miniature self-contained photoelectric sensors in universal housing

### Features





Standard Model

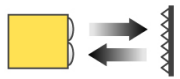
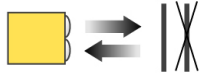
Chemical-Resistant Model



- Bright, visible red (640 nm) light source
- Standard models available with 4-wire 2 m (6.5') or 9 m (30') cable or 3 or 4-wire 150 mm (6") pigtail with Pico-style M8 threaded connector
- Solid-state, bipolar outputs: one current sourcing (PNP) and one current sinking (NPN) standard on 4-wire models
- Single output solid-state PNP or NPN standard on Q3 models
- Light Operate (L.O.) or Dark Operate (D.O.), depending on model
- Models available with PFA chemical-resistant jacket (1200 psi washdown rated) for use in harsh environments (see [Chemical-Resistant Models](#) on page 3).
- Compact 8 mm (0.31") housing mounts almost anywhere
- Crosstalk-avoidance circuitry for multiple-sensor applications
- LED status indicators for Power ON, Output Overload, Signal Received, and Marginal Signal

### Standard Models

Sensing Mode		Model*	Range	Output
Opposed	640 nm Visible Red	Q126E (emitter)	2 m (6.5')	N/A
	Effective Beam: 5.7 mm (0.22") 	Q12AB6R		Bipolar LO
		Q12RB6R		Bipolar DO
		Q12AP6RQ3		1 PNP LO
		Q12RP6RQ3		1 PNP DO
		Q12AN6RQ3		1 NPN LO
		Q12RN6RQ3		1 NPN DO
Polarized Retro	640 nm Visible Red	Q12AB6LP	1 m** (40")	Bipolar LO
		Q12RB6LP		Bipolar DO
		Q12AP6LPQ3		1 PNP LO
		Q12RP6LPQ3		1 PNP DO
		Q12AN6LPQ3		1 NPN LO
		Q12RN6LPQ3		1 NPN DO

Sensing Mode		Model*	Range	Output
Retro	640 nm Visible Red 	Q12AB6LV	1.5 m** (59")	Bipolar LO
		Q12RB6LV		Bipolar DO
		Q12AP6LVQ3		1 PNP LO
		Q12RP6LVQ3		1 PNP DO
		Q12AN6LVQ3		1 NPN LO
		Q12RN6LVQ3		1 NPN DO
Performance based on use of 90% reflectance white test card.				
Fixed-Field	640 nm Visible Red 	Q12AB6FF15	15 mm (0.6") cutoff; 10 mm (0.4") focus	Bipolar LO
		Q12RB6FF15		Bipolar DO
		Q12AP6FF15Q3		1 PNP LO
		Q12RP6FF15Q3		1 PNP DO
		Q12AN6FF15Q3		1 NPN LO
		Q12RN6FF15Q3		1 NPN DO
		Q12AB6FF30	30 mm (1.2") cutoff; 16 mm (0.63") focus	Bipolar LO
		Q12RB6FF30		Bipolar DO
		Q12AP6FF30Q3		1 PNP LO
		Q12RP6FF30Q3		1 PNP DO
		Q12AN6FF30Q3		1 NPN LO
		Q12RN6FF30Q3		1 NPN DO
		Q12AB6FF50	50 mm (2") cutoff 16 mm (0.63") focus	Bipolar LO
		Q12RB6FF50		Bipolar DO
		Q12AP6FF50Q3		1 PNP LO
		Q12RP6FF50Q3		1 PNP DO
		Q12AN6FF50Q3		1 NPN LO
		Q12RN6FF50Q3		1 NPN DO

\* **Q3 models:** 3-pin Pico-style (M8 threaded) 150 mm (6") pigtail QD. Not available for bipolar models.

Models with no suffix have standard 2 m (6.5') cables.

- For 9 m (30') cable, add suffix "**W/30**" to the model number (e.g., **Q126E W/30**).
- For 4-pin Pico-style (M8 threaded) 150 mm (6") pigtail QD, add suffix **Q** to the model number (e.g. **Q126EQ**).
- For 4-pin Euro-style (M12 threaded) 150 mm (6") pigtail QD, add suffix **Q5** to the model number (e.g. **Q126EQ5**).

\*\*Retroreflective range is specified using one model **BRT-60X40C** retroreflector. Actual sensing range may be more or less than specified, depending upon efficiency and reflective area of the retroreflector(s) used.