

Q45BB6 Series Sensors

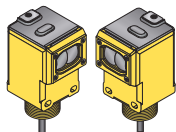
10 to 30V dc photoelectric sensors with sinking and sourcing solid-state outputs



Q45BB6 Series Features

- Advanced one-piece photoelectric sensors with outstanding optical performance and extremely rugged design
- Operate from: 10 to 30V dc
- Bipolar NPN (sinking)/PNP (sourcing) outputs on all models
- Multiple sensing modes include: opposed, diffuse, retroreflective and convergent, plus glass and plastic fiber optic models
- Switchable light/dark operate
- Highly visible Power, Signal (AID™ System*), and Output indicator LEDs
- Versatile plug-in modules available for output timing logic and/or signal strength display
- Choice of prewired 2 m (6.5') or 9 m (30') unterminated cable, plus Mini-style or Euro-style quick-disconnect fittings
- Versatile mounting options
- Designed to withstand 1200 psi washdown; exceeds its NEMA 6P and IEC IP67 rating

*U.S. Patent no. 4356393



Because of their extremely high excess gain, these opposed-mode sensors are an excellent option for sensing in contaminated or dirty areas, and are also the best choice for long-range sensing.



Infrared, 880 nm

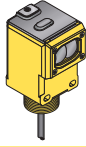
Q45BB6 Series Opposed-Mode Emitter (E) and Receiver (R) Models

Models	Range	Cable	Supply Voltage	Output Type	Excess Gain	Beam Pattern
Q456E Emitter	60 m (200')	2-wire 2m (6.5')	10 to 30V dc	Bipolar NPN/PNP		Effective Beam: 13 mm
Q45BB6R Receiver		4-wire 2m (6.5')				
Q456EQ Emitter		4-Pin Mini-style QD				
Q45BB6RQ Receiver		4-Pin Euro-style QD				
Q456EQ5 Emitter	60 m (200')	4-Pin Euro-style QD	10 to 30V dc	Bipolar NPN/PNP		Effective Beam: 13 mm
Q45BB6RQ5 Receiver		4-Pin Euro-style QD				

NOTES: i) 9 m (30') cables are available by adding suffix "W/30" to the model number of any cabled sensor (e.g., **Q456E W/30**)
ii) A model with a QD connector requires a mating cable; see page 10.

IMPORTANT: SEE SAFETY USE WARNING ON BACK PAGE

Q45BB6 Series



The visible red sensing beam of these sensors makes them very easy to align. Model Q45BB6LP polarizes the emitted light and filters out unwanted reflections, making sensing possible in applications otherwise considered unsuited to retroreflective sensing. Performance is specified using the model BRT-3 3" reflector (see the Accessories section of your current Banner Photoelectric Sensors catalog for further information).



Q45BB6 Series Retroreflective-Mode Models

Models	Range	Cable	Supply Voltage	Output Type	Excess Gain	Beam Pattern
Non-Polarized						
Q45BB6LV Q45BB6LVQ Q45BB6LVQ5	0.08 to 9 m (3" to 30')	4-wire 2 m (6.5') 4-Pin Mini-style QD 4-Pin Euro-style QD	10 to 30V dc	Bipolar NPN/PNP		
Polarized						
Q45BB6LP Q45BB6LPQ Q45BB6LPQ5	0.15 to 6 m (6" to 20')	4-wire 2 m (6.5') 4-Pin Mini-style QD 4-Pin Euro-style QD	10 to 30V dc	Bipolar NPN/PNP		

NOTES:

- 9 m (30') cables are available by adding suffix "W/30" to the model number of any cabled sensor (e.g., **Q45BB6LV W/30**)
- A model with a QD connector requires a mating cable; see page 10.