

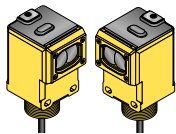
# Q45VR3 Series Sensors

Universal voltage photoelectric sensors with electromechanical relay output



## Q45VR3 Series Features

- Advanced one-piece photoelectric sensors with outstanding optical performance and extremely rugged design
- Universal supply voltage: 12 to 250V dc or 24 to 250V ac
- Electromechanical relay for economical, high-capacity switching and immunity to electrical noise
- Full line includes opposed, diffuse, retroreflective, convergent, and glass and plastic fiber optic sensing modes
- Switchable light/dark operate
- Versatile plug-in modules available for output timing logic and/or signal strength display
- Highly visible Power, Signal (AID™ System), and Output indicator LEDs
- Choice of prewired 2 m (6.5') or 9 m (30') unterminated cable or Mini-style quick-disconnect fitting
- Versatile mounting options
- Designed to withstand 1200 psi washdown; exceeds its NEMA 6P and IEC IP67 rating



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

## Q45VR3 Series Opposed-Mode Emitter (E) and Receiver (R) Models

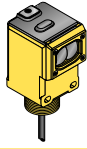
Models	Range	Cable*	Supply Voltage	Output Type	Excess Gain	Beam Pattern
Q453E Emitter	60 m (200')	2-wire 2m (6.5')	Universal 12 - 250V dc or 24 - 250V ac	SPDT Electro- mechanical Relay		
Q45VR3R Receiver		5-wire 2m (6.5')				
Q453EQ Emitter		3-Pin Mini-style QD				
Q45VR3RQ Receiver		5-Pin Mini-style QD				

\* 9 m (30') cables are available by adding suffix "W/30" to the model number of any cabled sensor (e.g., Q453E W/30)  
A model with a QD connector requires a mating cable; see page 10.

**IMPORTANT: SEE SAFETY USE WARNING ON BACK PAGE**

# Q45VR3 Series

The visible red sensing beam of these sensors makes them very easy to align. Model Q45VR3LP polarizes the emitted light and filters out unwanted reflections, making sensing possible in applications otherwise considered unsuited to retroreflective sensing performance. Specified using the model BRT-3 3" reflector (see the Accessories section of your current Banner Photoelectric Sensors catalog for further information).



## Q45VR3 Series Retroreflective-Mode Models

Models	Range	Cable*	Supply Voltage	Output Type	Excess Gain	Beam Pattern
<b>Non-Polarized</b>						
Q45VR3LV Q45VR3LVQ	0.08 to 9 m (3" to 30')	5-wire 2 m (6.5') 5-Pin Mini-style QD	Universal 12 - 250V dc or 24 - 250V ac	SPDT Electro- mechanical Relay		
<b>Polarized</b>						
Q45VR3LP Q45VR3LPQ	0.15 to 6 m (6" to 20')	5-wire 2 m (6.5') 5-Pin Mini-style QD	Universal 12 - 250V dc or 24 - 250V ac	SPDT Electro- mechanical Relay		

\* 9 m (30') cables are available by adding suffix "W/30" to the model number of any cabled sensor (e.g., Q45VR3LV W/30)

A model with a QD connector requires a mating cable; see page 10.