

Features



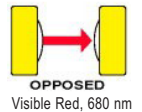
- Economical photoelectric sensors in NEMA-6P (IEC IP67) ABS housing
- Signal (AID™ System) and Output indicator LEDs
- Wiring chamber with two conduit entrances
- Available in three electrical configurations:

Q85VR3 Models: 24 to 240V ac or 12 to 240V dc supply voltage, 3 amp electromechanical output relay

Q85BW13 Models: 24 to 240V ac or 12 to 240V dc supply voltage, SPST 0.3 amp isolated solid-state output switch, light/dark operate switch

Q85BB62 Models: 10 to 48V dc supply voltage, bipolar solid-state outputs (one NPN sinking and one PNP sourcing), low-saturation hookup option for TTL compatibility, light/dark operate switch

- “T9” model suffix indicates selectable output timing (8 options, configured via DIP switch; see page 3)



Opposed Mode Emitter (E) and Receiver (R) Models

Models	Range	Supply Voltage	Output Type	Output Timing	Excess Gain	Beam Pattern	
Q853E	23 m (75')	12 – 240V dc 24 – 240V ac	—	—			
Q85VR3R				No			Effective Beam: 9.6 mm
Q85VR3R-T9			SPDT E/m Relay	Yes			
Q85BW13R			SPST Solid-state Switch	No			
Q85BW13R-T9		SPST Solid-state Switch	Yes				
Q8562E		10 – 48V dc	—	—			—
Q85BB62R				Bipolar NPN/PNP			No
Q85BB62R-T9			Bipolar NPN/PNP	—			—
	—			Yes			

See page 2 for more models

⚠ WARNING . . . Not To Be Used for Personnel Protection

Never use these products as sensing devices for personnel protection. Doing so could lead to serious injury or death.

These sensors do NOT include the self-checking redundant circuitry necessary to allow their use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition. Consult your current Banner Safety Products catalog for safety products which meet OSHA, ANSI and IEC standards for personnel protection.



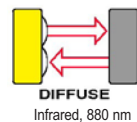
Q85 Sensors



Polarized Retroreflective Mode Models

Models	Range*	Supply Voltage	Output Type	Output Timing	Excess Gain	Beam Pattern
Q85VR3LP	80 mm – 4.6 m (3" – 15')	12 – 240V dc 24 – 240V ac	SPDT E/m Relay	No		
Q85VR3LP-T9				Yes		
Q85BW13LP			SPST Solid-state Switch	No		
Q85BW13LP-T9				Yes		
Q85BB62LP		10 – 48V dc	Bipolar NPN/PNP	No		
Q85BB62LP-T9				Yes		

*NOTE: Retroreflective range is specified using one model BRT-3 retroreflector (3" diameter). Actual sensing range may be more or less than specified, depending upon the efficiency and reflective area of the retroreflector(s) used.



Diffuse Mode Models

Models	Range	Supply Voltage	Output Type	Output Timing	Excess Gain	Beam Pattern
Performance based on 90% reflectance white test card						
Short Range						
Q85VR3D	250 mm (10")	12 – 240V dc 24 – 240V ac	SPDT E/m Relay	No		
Q85VR3D-T9				Yes		
Q85BW13D			SPST Solid-state Switch	No		
Q85BW13D-T9				Yes		
Q85BB62D		10 – 48V dc	Bipolar NPN/PNP	No		
Q85BB62D-T9				Yes		
Long Range						
Q85VR3DL	1 m (40")	12 – 240V dc 24 – 240V ac	SPDT E/m Relay	No		
Q85VR3DL-T9				Yes		
Q85BW13DL			SPST Solid-state Switch	No		
Q85BW13DL-T9				Yes		
Q85BB62DL		10 – 48V dc	Bipolar NPN/PNP	No		
Q85BB62DL-T9				Yes		