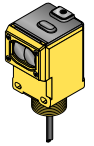
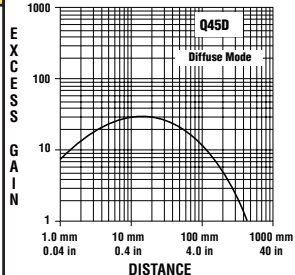
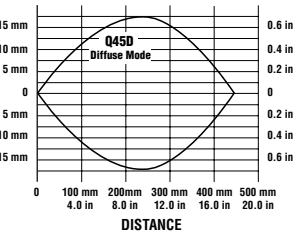
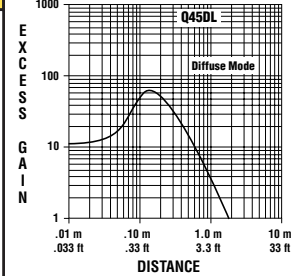
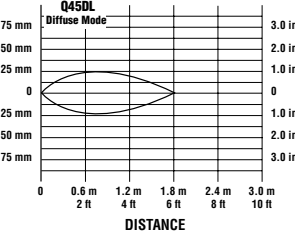
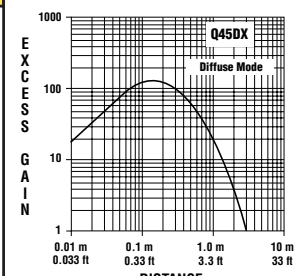
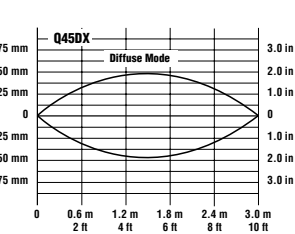


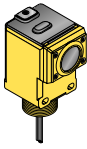
These diffuse-mode models detect objects by sensing the reflection of their own emitted light. Ideal for use when the reflectivity and profile of the object to be sensed are sufficient to return a large percentage of emitted light back to the sensor. Model Q45VR3DX is the first choice for diffuse-mode applications when there are no background objects to falsely return light.



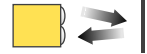
Q45VR3 Series Diffuse-Mode Models

Models	Range	Cable*	Supply Voltage	Output Type	Excess Gain	Beam Pattern
					Performance based on 90% reflectance white test card	
Short Range						
Q45VR3D Q45VR3DQ	45 cm (18")	5-wire 2 m (6.5') 5-Pin Mini-style QD	Universal 12 - 250V dc or 24 - 250V ac	SPDT Electro-mechanical Relay		
Long Range						
Q45VR3DL Q45VR3DLQ	1.8 m (6')	5-wire 2 m (6.5') 5-Pin Mini-style QD	Universal 12 - 250V dc or 24 - 250V ac	SPDT Electro-mechanical Relay		
High Power						
Q45VR3DX Q45VR3DXQ	3 m (10')	5-wire 2 m (6.5') 5-Pin Mini-style QD	Universal 12 - 250V dc or 24 - 250V ac	SPDT Electro-mechanical Relay		

Q45VR3 Series



These sensors are ideal for reflective sensing of very small parts or profiles, and can accurately sense the position of parts approaching from the side. Will ignore all but highly reflective objects that are outside the sensing range.



Visible red, 680 nm

Q45VR3 Series Convergent-Mode Models

Models	Focus	Cable*	Supply Voltage	Output Type	Excess Gain	Beam Pattern
					Performance based on 90% reflectance white test card	
Q45VR3CV Q45VR3CVQ	38 mm (1.5") Spot Size at Focus: 1.3 mm (0.05")	5-wire 2 m (6.5') 5-Pin Mini-style QD	Universal 12 - 250V dc or 24 - 250V ac	SPDT Electro-mechanical Relay		
Q45VR3CV4 Q45VR3CV4Q	100 mm (4") Spot Size at Focus: 1.5 mm (0.06")	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., **Q45VR3CV W/30**)

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