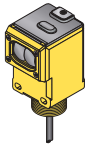


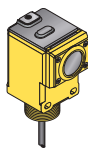
These diffuse-mode models detect objects by sensing the reflection of their own emitted light. Ideal for use when the reflectivity and profile of the object to be sensed are sufficient to return a large percentage of emitted light back to the sensor. Model Q45BB6DX is the first choice for diffuse-mode applications when there are no background objects to falsely return light.



Q45BB6 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						
Q45BB6D	450 mm (18")	4-wire 2 m (6.5')	10 to 30V dc	Bipolar NPN/PNP		
Q45BB6DQ		4-Pin Mini-style QD				
Q45BB6DQ5		4-Pin Euro-style QD				
Long Range						
Q45BB6DL	1.8 m (6')	4-wire 2 m (6.5')	10 to 30V dc	Bipolar NPN/PNP		
Q45BB6DLQ		4-Pin Mini-style QD				
Q45BB6DLQ5		4-Pin Euro-style QD				
High Power						
Q45BB6DX	3 m (10')	4-wire 2 m (6.5')	10 to 30V dc	Bipolar NPN/PNP		
Q45BB6DXQ		4-Pin Mini-style QD				
Q45BB6DXQ5		4-Pin Euro-style QD				

Q45BB6 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

Q45BB6 Series Convergent-Mode Models

Models	Focus	Cable	Supply Voltage	Output Type	Excess Gain	Beam Pattern
					Performance based on 90% reflectance white test card	
Q45BB6CV Q45BB6CVQ Q45BB6CVQ5	38 mm (1.5") Spot Size at Focus: 1.3 mm (0.05")	4-wire 2 m (6.5') 4-Pin Mini-style QD 4-Pin Euro-style QD	10 to 30V dc	Bipolar NPN/PNP		
Q45BB6CV4 Q45BB6CV4Q Q45BB6CV4Q5	100 mm (4") Spot Size at Focus: 1.5 mm (0.06")	4-wire 2 m (6.5') 4-Pin Mini-style QD 4-Pin Euro-style QD	10 to 30V dc	Bipolar NPN/PNP		

NOTES:

- i) 9 m (30') cables are available by adding suffix "W/30" to the model number of any cabled sensor (e.g., **Q45BB6CV W/30**)
- ii) A model with a QD connector requires a mating cable; see page 10.