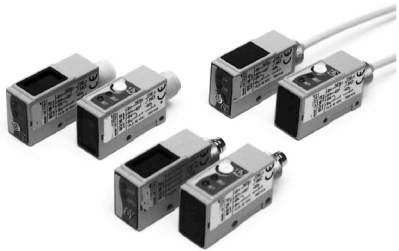


QX Series Photoelectric Sensors



Rectangular plastic - DC

- One through-beam detection model available
- Right-angle optics
- Fast response time
- NPN/PNP selectable output
- 2 LED indicators (threshold and signal margin)
- IP65 rated



Note: Some sensors shown above are discontinued and are no longer available.

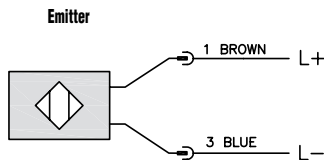
QX Series Photoelectric Sensor Selection Chart										
Part Number	Price	Sensing Range	Output State*	Optics	Logic	Connection	Wiring	Dimensions	Characteristic Curves	
Through-beam										
QXX-00-2A*	Emitter	No Match!	8m (26.25 ft)	Receiver dependent	Right-angle	Receiver dependent	2m (6.5') axial cable	Diagram 2	Figure 2	Chart 1

*Product no longer available from supplier. Once this part is out of stock, it will be discontinued.

Switching Element Function	
	Thru-beam Models
Light on	N.C.
Dark on	N.O.

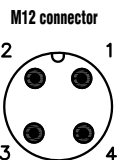
Wiring diagrams

Diagram 1



Check input test circuit (QXX models only): To test that the sensor is operating correctly, apply 10.8-30VDC across the WH/2 (+) and BK/4 (-) leads, which are decoupled from the power supply. In light state, light pulses are interrupted, which simulates the presence of a target and causes the output to switch. If switching does not occur, check for a fault in the system.

Connector



Warning: These products are not safety sensors and are not suitable for use in personal safety applications.

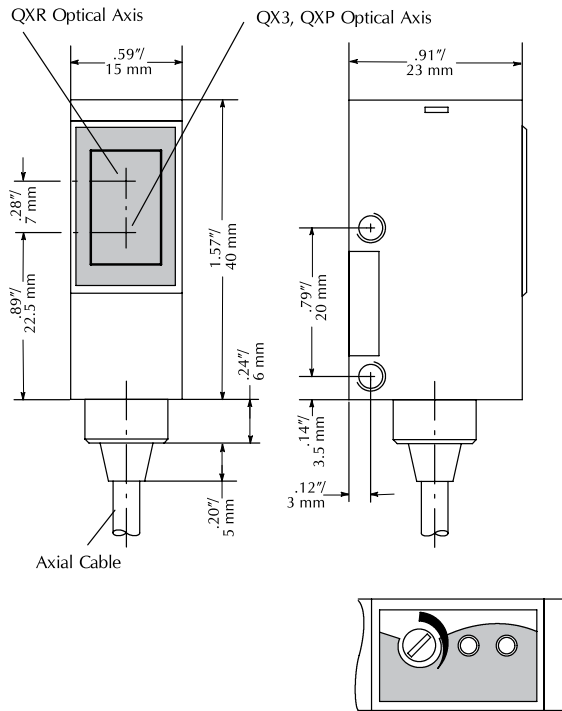
QX Series Photoelectric Sensors

Dimensions

(inches/mm)

(M3 x 0.5 screws included with sensor)

Figure 1



QX Series Photoelectric Sensors

Specifications	Through-Beam Models
Type	Through-beam ¹
Sensing Distance	8m
Light Spot Diameter	300mm @ 8 m
Emission	red (660nm)
Sensitivity	Adjustable one-turn pot.
Output Type	NPN/PNP selectable/N.O. only
Operating Voltage	10.8-30VDC
No-load Supply Current	20mA (emitter), 5mA (receiver)
Operating (Load) Current	300mA
Off-state (Leakage) Current	10µA max at 30VDC
Voltage Drop	1.2 volt maximum at 100mA
Switching Frequency	500Hz (Tr=0.75ms)
Ripple	10% max.
Time Delay Before Availability (tv)	200 ms
Short-Circuit Protection	Yes, (switch autoresets after overload is removed)
Operating Temperature	-25° to +70°C (-13° to 158°F)
Protection Degree (DIN 40050)	IEC IP65
LED Indicators - Switching Status	See Dimensions on previous page
Housing Material	ABS (glass reinforced)
Lens Material	Acrylic
Shock/Vibration	See terminology section
Tightening Torque	N/A
Weight	70g (2.47oz)
Connectors	2m (6.5') axial cable; M12 (12 mm) connector
Agency Approvals	UL recognized, E130644, CE
¹ An emitter (QXX) and receiver (QXR) pair is needed for a complete sensor set.	

Characteristic curves

Chart 1

Through Beam Models (QXX)

