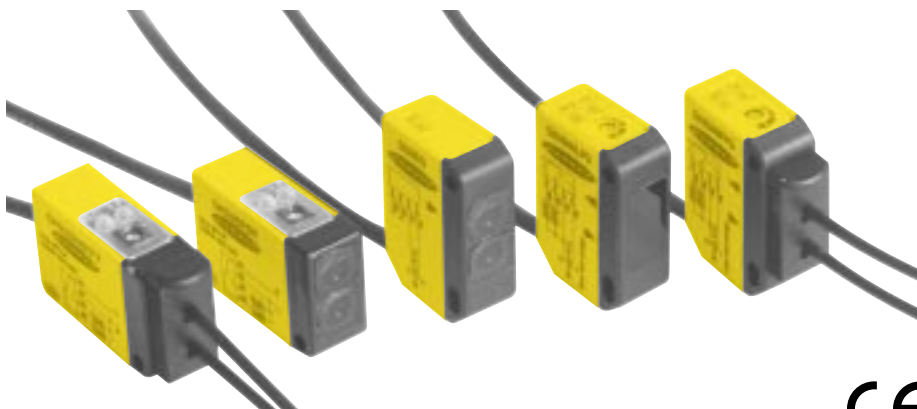


Q23s are miniature right-angle sensors



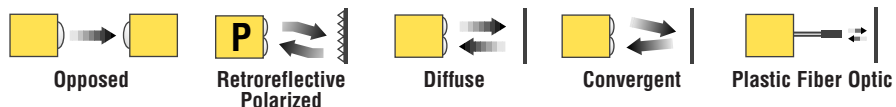
QH23s feature in-line (horizontal) design



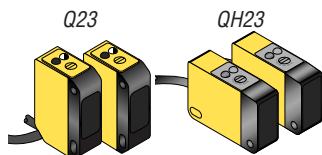
Features

- Totally self-contained; 10 to 30V dc operation
- Powerful visible red sensing beam simplifies setup and alignment
- Sensors include self-diagnostic circuitry; one output may be used as a marginal signal alarm[†]
- Circuitry is completely sealed in ABS housing; rated IP67 and NEMA 6
- Choose NPN (sinking) or PNP (sourcing) models; outputs are short circuit protected and rated for up to 150 milliamp load
- LED indications for Power ON, Output Status (including overload condition), Alignment and Marginal Signal
- Stainless steel right-angle mounting bracket and hardware are included (see page 7 and 8)

Q23 Sensing Mode Options

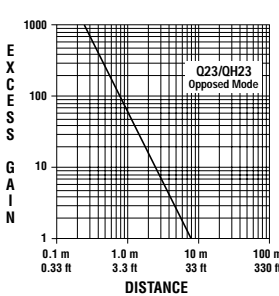
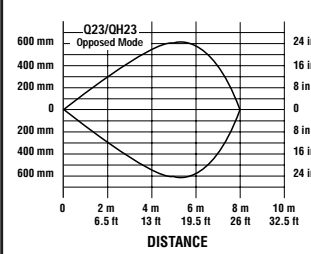


[†] U.S. patent #5087838

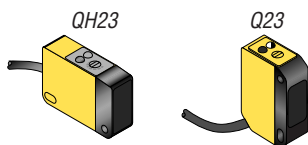


Visible red, 680 nm

Q23 & QH23 Opposed Mode Emitter (E) and Receiver (R)

Models	Range	Cable	Supply Voltage	Output Type	Excess Gain	Beam Pattern
Q236E QH236E Q236EQ QH236EQ	8 m (26ft)	2 m (6.5 ft) 2 m (6.5 ft) 4-Pin Pico QD 4-Pin Pico QD	10-30V dc	Complementary Solid-state NPN		Effective Beam: 5.3 mm 
Q23SN6R QH23SN6R Q23SN6RQ QH23SN6RQ		2 m (6.5 ft) 2 m (6.5 ft) 4-Pin Pico QD 4-Pin Pico QD				
Q23SP6R QH23SP6R Q23SP6RQ QH23SP6RQ		2 m (6.5 ft) 2 m (6.5 ft) 4-Pin Pico QD 4-Pin Pico QD				

Q23 and QH23 Series



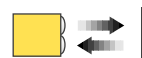
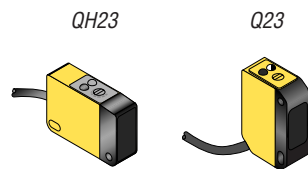
NOTE: Retroreflective range is specified using one model BRT-3 retroreflector (3-inch diameter). Actual sensing range may be more or less than specified, depending upon the efficiency and reflective area of the retroreflector(s) in use. See the Banner Photoelectric Sensors catalog for more information on available retroreflectors.



Visible red, 680 nm

Q23 & QH23 Polarized Retroreflective Mode

Models	Range	Cable	Supply Voltage	Output Type	Excess Gain	Beam Pattern
Q23SN6LP QH23SN6LP Q23SN6LPQ QH23SN6LPQ	100 mm to 2 m (4 to 80 in)	2 m (6.5 ft) 2 m (6.5 ft) 4-Pin Pico QD 4-Pin Pico QD	10-30V dc	Complementary Solid-state NPN		
Q23SP6LP QH23SP6LP Q23SP6LPQ QH23SP6LPQ		2 m (6.5 ft) 2 m (6.5 ft) 4-Pin Pico QD 4-Pin Pico QD		Complementary Solid-state PNP		



Visible red, 680 nm

Q23 & QH23 Diffuse Mode

Models	Range	Cable	Supply Voltage	Output Type	Excess Gain	Beam Pattern
					Performance based on 90% reflectance white test card	
Short Range						
Q23SN6D QH23SN6D Q23SN6DQ QH23SN6DQ	Optimum: 2 - 50 mm (.1 - 2 in)	2 m (6.5 ft) 2 m (6.5 ft) 4-Pin Pico QD 4-Pin Pico QD	10-30V dc	Complementary Solid-state NPN		
Q23SP6D QH23SP6D Q23SP6DQ QH23SP6DQ	Maximum: 200 mm (8 in)	2 m (6.5 ft) 2 m (6.5 ft) 4-Pin Pico QD 4-Pin Pico QD		Complementary Solid-state PNP		
Long Range						
Q23SN6DL QH23SN6DL Q23SN6DLQ QH23SN6DLQ	Optimum: 30 - 300 mm (1.2 - 12 in)	2 m (6.5 ft) 2 m (6.5 ft) 4-Pin Pico QD 4-Pin Pico QD	10-30V dc	Complementary Solid-state NPN		
Q23SP6DL QH23SP6DL Q23SP6DLQ QH23SP6DLQ	Maximum: 800 mm (32 in)	2 m (6.5 ft) 2 m (6.5 ft) 4-Pin Pico QD 4-Pin Pico QD		Complementary Solid-state PNP		