

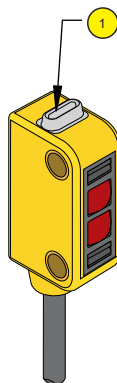


## Chemical-Resistant Models

Sensing Mode		Model*	Range	Output
<b>Opposed</b>	640 nm Visible Red	<b>Q126ECR</b>	1.5 m (4.9')	N/A
	Effective Beam: 5.7 mm (0.22") 	<b>Q12AB6RCR</b>		Bipolar LO
		<b>Q12RB6RCR</b>		Bipolar DO
Performance based on use of 90% reflectance white test card.				
<b>Fixed-Field</b>	640 nm Visible Red 	<b>Q12AB6FF15CR</b>	13 mm (0.5") cutoff;	Bipolar LO
		<b>Q12RB6FF15CR</b>	8 mm (0.3") focus	Bipolar DO
		<b>Q12AB6FF30CR</b>	28 mm (1.1") cutoff;	Bipolar LO
		<b>Q12RB6FF30CR</b>	14 mm (0.6") focus	Bipolar DO
		<b>Q12AB6FF50CR</b>	48 mm (1.9") cutoff;	Bipolar LO
		<b>Q12RB6FF50CR</b>	14 mm (0.6") focus	Bipolar DO

\*Only standard 2 m (6.5') cables are available for chemical-resistant models.

## Indicator Features



**Figure 1. Features**

- 1. Yellow and Green LEDs
- Green ON steady: power to sensor is ON
- Green flashing: output is overloaded
- Yellow ON steady: received signal
- Yellow flashing: marginal signal

**Chemical-Resistant models:** LEDs are visible through translucent PFA jacket. Rated to 1200 psi washdown.

## Specifications

Feature	Description
<b>Sensing Beam</b>	640 nm visible red
<b>Supply Voltage and Current</b>	10 to 30V dc (10% max. ripple) @ 20 mA max current
<b>Supply Protection Circuitry</b>	Protected against reverse polarity and transient voltages
<b>Output Configuration</b>	Bipolar (1 NPN and 1 PNP) solid-state output or Single output (PNP or NPN), LO or DO, depending on model
<b>Output Ratings</b>	50 mA total across all output(s) with overload and short circuit protection
	<b>OFF-state leakage current:</b> <b>NPN:</b> 200 $\mu$ A <b>PNP:</b> 10 $\mu$ A
	<b>ON-state saturation voltage:</b> <b>NPN:</b> 1.25V @ 50 mA <b>PNP:</b> 1.45V @ 50 mA
<b>Output Protection Circuitry</b>	Protected against false pulse on power-up, short-circuit protected
<b>Output Response Time</b>	<b>Opposed Mode:</b> 1.3 ms ON; 900 $\mu$ s OFF
	<b>All Other Modes:</b> 700 $\mu$ s ON/OFF
	NOTE: 120 ms delay on power-up; outputs do not conduct during this time.
<b>Repeatability</b>	175 microseconds
<b>Switching Frequency</b>	<b>Opposed Mode:</b> 385 Hz
	<b>All Other Modes:</b> 715 Hz
<b>Indicators</b>	One Yellow and one Green LED (see Figure 1)
<b>Construction</b>	<b>Polarized Retro Models:</b> Thermoplastic elastomer housing with glass lens
	<b>All Other Standard Models:</b> Thermoplastic elastomer housing with polycarbonate lens
	<b>Chemical-Resistant Models:</b> Housing encased in PFA jacket; cable encased in 3/16" O.D. PFA tubing
<b>Environmental Rating</b>	<b>Standard Models:</b> IEC IP67
	<b>Chemical-Resistant Models:</b> IEC IP67 (NEMA6) and PW12 1200 psi washdown per NEMA ICS5, Annex F-2002
<b>Connections</b>	<b>Standard Models:</b> 2 m (6.5') or 9 m (30') attached PVC cable, or 150 mm (6") pigtail with M8 or M12 threaded connection
	<b>Chemical-Resistant Models:</b> 2 m (6.5') cable encased in 3/16" O.D. PFA tubing
<b>Operating Conditions</b>	<b>Operating temperature:</b> -20° to +55° C (-4° to +131° F)
	<b>Storage temperature:</b> -30° to +75° C (-22° to +167° F)
	<b>Relative humidity:</b> 95% max @ +50° C (+122° F) non-condensing
<b>Certifications</b>	