

Q45 Namur DC Series

Product Specifications

Supply Voltage	5 to 15V dc (provided by the amplifier to which the sensor is connected)
Range	Opposed: 6 m Non-polarized Retroreflective: 9 m, range is specified using one model BRT-3 retroreflector Polarized Retroreflective: 6 m, range is specified using one model BRT-3 retroreflector Diffuse (short range): 380 mm Diffuse (long range): 1 m Convergent: 38 or 100 mm, depending on model Glass Fiber Optic: Range varies by sensing mode and fiber optics used
Output	Constant current output: 1 mA or less in the dark condition and 2.1 mA or less in the light condition
Output Response Time	Opposed Receiver: 2 milliseconds ON; 400 microseconds OFF All others: 5 milliseconds ON/OFF (does not include amplifier response)
Ajustments	Multi-turn sensitivity control on top of sensor, beneath a transparent o-ring sealed Lexan cover, allows precise sensitivity setting (turn clockwise to increase gain).
Indicators	Indicator LEDs are highly visible, located beneath a raised transparent Lexan dome on top of sensor. Emitters: Power (Red):lights whenever 5-15V dc power is applied All others: Signal (Red):lights whenever the sensor sees its modulated light source
Construction	Molded reinforced thermoplastic polyester housing, o-ring sealed transparent Lexan top cover, molded acrylic lenses and stainless-steel hardware. Q45s are designed to meet 1200 psi washdown. The base of cabled models has a 1/2 inch NPS integral internal conduit thread.
Environmental Rating	NEMA 6P; IEC IP67
Connections	PVC-jacketed 2-conductor 2 m or 9 m cables, or 4-pin Euro-style QD. QD cable are ordered separately.
Operating Conditions	Temperature: -40° C to + 70° C Relative humidity: 90% @ 50° C (non-condensing)
Design Standards	Q45AD9 Series sensors comply with the following standards: DIN 19 234, EN 50 014: 1977, EN50 020: 2002