

Q45 NAMUR

Rectangular Sensors for Hazardous Areas



- The Q45 NAMUR is a specialized sensor for explosive environments meeting intrinsically safe standards to ensure it is safe for use in hazardous areas
- Intrinsically safe dc models for potentially explosive environments
- For use with approved DIN 19 234 switching amplifiers

Opposed Q45, 5-15 V DC

Infrared LED

Sensing Mode	Range	Connection	Output Type	Models
 OPPOSED	6 m	2 m	Constant Current ≤ 1.2 mA dark ≥ 2.1 mA light	Q459E Emitter
		4-Pin Euro QD		Q459EQ Emitter
		2 m		Q45AD9R
		4-Pin Euro QD		Q45AD9RQ

Retro & Polar Retro Q45, 5-15 V DC

Visible Red LED

Sensing Mode	Range	Connection	Output Type	Models
 RETRO	9 m [†]	2 m	Constant Current ≤ 1.2 mA dark ≥ 2.1 mA light	Q45AD9LV
		4-Pin Euro QD		Q45AD9LVQ
 POLAR RETRO	6 m [†]	2 m	Constant Current ≤ 1.2 mA dark ≥ 2.1 mA light	Q45AD9LP
		4-Pin Euro QD		Q45AD9LPQ

For more specifications see page 337.

Connection options: A model with a QD requires a mating cordset (see page 336).

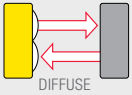
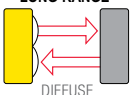
For 9 m cable, add suffix W/30 to the 2 m model number (example, Q459E W/30).

[†] Retroreflective range is specified using one model BRT-3 retroreflector.

Actual sensing range may differ, depending on efficiency and reflective area of the retroreflector in use. See Accessories for more information.

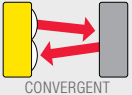
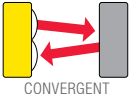
Diffuse Q45, 5-15 V DC

 Infrared LED

Sensing Mode	Range	Connection	Output Type	Models
 DIFFUSE	300 mm	2 m 4-Pin Euro QD	Constant Current ≤1.2 mA dark ≥2.1 mA light	Q45AD9D Q45AD9DQ
LONG-RANGE  DIFFUSE	1 m	2 m 4-Pin Euro QD	Constant Current ≤1.2 mA dark ≥2.1 mA light	Q45AD9DL Q45AD9DLQ

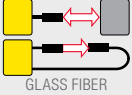
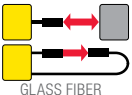
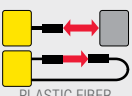
Convergent Q45, 5-15 V DC

 Visible Red LED

Sensing Mode	Range	Connection	Output Type	Models
 CONVERGENT	38 mm	2 m 4-Pin Euro QD	Constant Current ≤1.2 mA dark ≥2.1 mA light	Q45AD9CV Q45AD9CVQ
 CONVERGENT	100 mm	2 m 4-Pin Euro QD	Constant Current ≤1.2 mA dark ≥2.1 mA light	Q45AD9CV4 Q45AD9CV4Q

Glass & Plastic Fiber Q45, 5-15 V DC

 Infrared LED  Visible Red LED

Sensing Mode	Range	Connection	Output Type	Models
 GLASS FIBER	Range varies by sensing mode and fiber optics used	2 m	Constant Current ≤1.2 mA dark ≥2.1 mA light	Q45AD9F
		4-Pin Euro QD		Q45AD9FQ
 GLASS FIBER	Range varies by sensing mode and fiber optics used	2 m	Constant Current ≤1.2 mA dark ≥2.1 mA light	Q45AD9FV
		4-Pin Euro QD		Q45AD9FVQ
 PLASTIC FIBER	Range varies by sensing mode and fiber optics used	2 m	Constant Current ≤1.2 mA dark ≥2.1 mA light	Q45AD9FP
		4-Pin Euro QD		Q45AD9FPQ

For more specifications see page 337.

 Connection options: A model with a QD requires a mating cordset (see page 336).

For 9 m cable, add suffix W/30 to the 2 m model number (example, Q459E W/30).