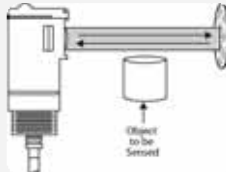
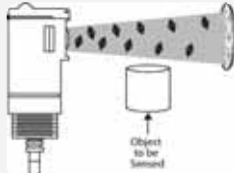
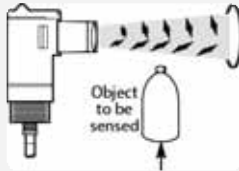


Sensing Mode	Retroreflective	Polarized Retroreflective	Diffuse	Transmitted Beam	Small Aperture Fiber Optic	Large Aperture Fiber Optic	
Standard/Diagnostic and Intrinsically Safe Models							
Field of View	1.5°		3.5° for 1.5 m range and 6.5° for 3.0 and 4 m range	1.5°	Depends on fiber optic cable		
Light Source	Visible red 660 nm		Visible red 660 nm			Visible red 660 nm	Infrared 880 nm
Response Time	2 ms (DC), SPDT EM Relay (15 ms), 2 ms (MOSFET AC/DC)						
Laser							
Spot Size	-	20 x 25 mm @ 40 m	2 x 3.5 mm @ 800 nm	—	-	-	
Response Time	-	0.5 ms	0.5 ms	50ms, AC: 25 ms	-	-	

Product Selection

Sensing Mode		Operating Voltage	Light Source	Sensing Distance	Output Type	Sensor Type	Cat. No.§			
Retroreflective		10...30V DC	Visible red 660 nm	0.050...9.1 m (0.16...30 ft)	PNP and NPN (DC models), SPDT relay (AC/DC models), MOSFET (AC/DC models)	Standard ON/OFF	42GRU-9000-QD			
		10...55V DC; 20...40V AC			NPN and PNP	Timing	42GTU-9000-QD			
					PNP and NPN both sensor and diagnostic output (DC models)	Diagnostic	42GDU-9000-QD			
		70...264V AC/DC			SPDT EM Relay	Standard ON/OFF	42GRU-9001-QD			
						Timing	42GTU-9001-QD			
						Standard ON/OFF	42GRU-9002-QD			
						Timing	42GTU-9002-QD			
		90...264V AC/DC			N-MOSFET	Standard ON/OFF	42GRU-9003-QD			
						Timing	42GTU-9003-QD			
					SPST N.O Relay‡	Diagnostic	42GDU-9004-QD			
							42GDU-9005-QD			
Polarized Retroreflective		10...30V DC	Infrared 660 nm	0.050...4.9 m (0.16...16 ft)	NPN and PNP	Standard ON/OFF	42GRU-9200-QD			
		10...55V DC; 20...40V AC				Timing	42GTU-9200-QD			
						Diagnostic	42GDU-9200-QD			
		70...264V AC/DC			SPDT EM Relay	Standard ON/OFF	42GRU-9201-QD			
						Timing	42GTU-9201-QD			
						Standard ON/OFF	42GRU-9202-QD			
						Timing	42GTU-9202-QD			
		90...264V AC/DC			N-MOSFET	Standard ON/OFF	42GRU-9203-QD			
						Timing	42GTU-9203-QD			
					SPST N.O Relay‡	Diagnostic	42GDU-9204-QD			
							42GDU-9205-QD			
		Clear Object Detection		10...30V DC	Visible red 660 nm	0.050...1.2 m (0.16...4 ft)	NPN and PNP	Standard ON/OFF	42GRC-9200-QD	
				70...264V AC/DC				Timing	42GTC-9200-QD	
				SPDT EM Relay			Standard ON/OFF	42GRC-9202-QD		