



ClearSight 9000



ClearSight RightSight



ClearSight 7000

Features

Three product families for application flexibility

- Configurable ClearSight 9000 for harsh duty glass and PET bottle detection
- ClearSight RightSight and 7000 for general purpose plastic film and stretch-wrap detection

Specifications

	9000	RightSight	7000
Environmental			
Certifications	cULus Listed and CE Marked for all applicable directives		
Operating Environment	NEMA 3, 4X, 6P, 12, 13, IP67 (IEC529); 1200 psi (8270 kpa) washdown for RightSight and Series 9000 models		
Operating Temperature [C (F)]	-34...+70° (-29....+158°)	-25...+55° (-13....+131°)	-40...+65° (+13...+150°)
Vibration	10...55 Hz, 1 mm amplitude, meets or exceeds IEC 60947-5-2		
Shock	30 g with 1 ms pulse duration, meets or exceeds IEC 60947-5-2		
Relative Humidity	35...85%		
Ambient Light Immunity	Incandescent light: 5000 lux		
Optical			
Sensing Modes	Clear object		
Sensing Range	1.2 m max	1 m max	1.5 m max
Field of View	See Product Selection table on page 1-149		
Light Source	Visible red LED (660 nm)		
Electrical			
Voltage	10...40V DC; 70...264V AC/DC	10.8...30V DC	11.8...28V DC
Current Consumption	30 mA max	35 mA max	46 mA max
Sensor Protection	Short circuit, false pulse, reverse polarity, overload		
Outputs			
Response Time	See Product Selection table on page 1-149		
Output Type	PNP and NPN, SDPT, SS relay, diagnostic output, see Product Selection table on page 1-149		
Output Mode	Light or dark operate selectable, light or dark operate by cat. no. (see Product Selection table on page 1-149)		
Output Current	Refer to Product Selection table on page 1-149		
Mechanical			
Housing Material	Valox®	Mindel®	Valox
Lens Material	Acrylic		
Connection Types	See Product Selection table on page 1-149		
Supplied Accessories	92-90 Reflector		
Optional Accessories	See mounting brackets and cordsets on page 1-150		

Wiring Diagrams

For Wiring Diagrams, please refer to base product specifications:

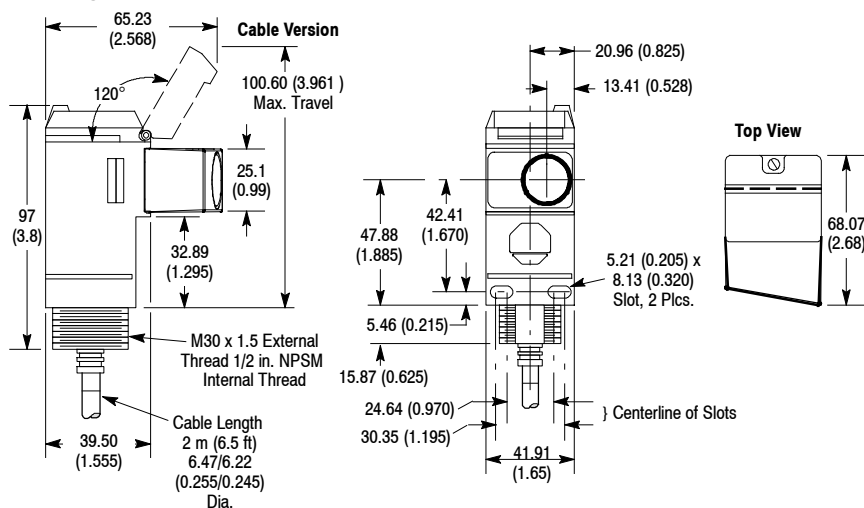
ClearSight RightSight see page 1-32

ClearSight 9000 see page 1-66

ClearSight 7000 see page 1-103

Approximate Dimensions [mm (in.)]

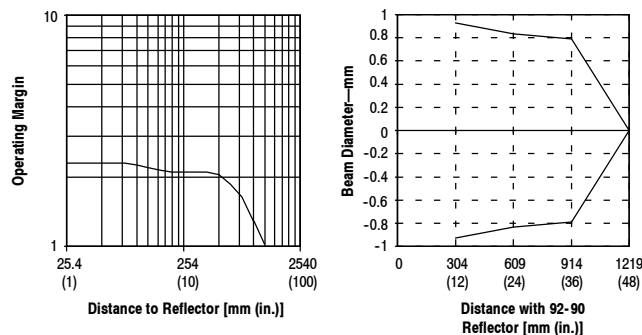
ClearSight 9000



Dimensions for ClearSight RightSight and ClearSight 7000 are located on page 1-32 and 1-103, respectively.

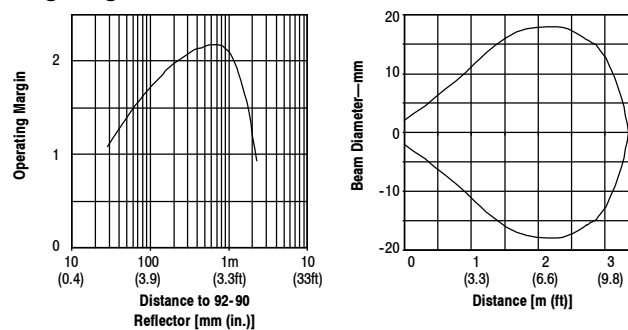
Typical Response Curve Beam Pattern

9000

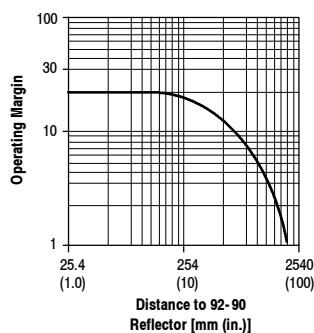


Typical Response Curve Beam Pattern

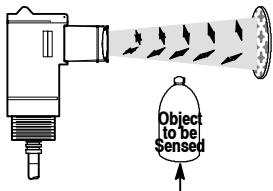
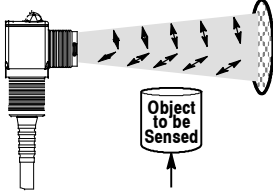
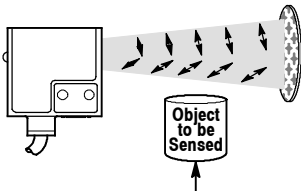
RightSight



7000



Product Selection

Sensing Mode	Operating Voltage Supply Current	Sensing Distance	Output Energized	Output Type Capacity Response Time	Connection Type	Cat. No.		
On/Off Sensors and Timing								
 9000 Field of View: 1.5° Emitter LED: Visible red 660 nm	10...40V DC 30 mA	0.025...1.2 m (0.08...4 ft)	Light/Dark Selectable	NPN/PNP 250 mA 2 ms	2 m 300V cable	42G⊗C-9200		
	70...264V AC/DC 50/60 Hz 15 mA			4-pin DC micro	42G⊗C-9200-QD			
				4-pin mini	42G⊗C-9200-QD1			
	45...264V DC/ 40...264V AC 50/60 Hz 15 mA	SPDT EM Relay 2 A/132V AC/ 1 A/264V AC 1 A/150V DC 15 ms	2 m 300V cable	42G⊗C-9202				
		5-pin mini	42G⊗C-9202-QD					
	Solid State Isolated N.O. 300 mA 2 ms	2 m 300V cable	42G⊗C-9203					
		4-pin mini	42G⊗C-9203-QD					
		4-pin AC micro	42G⊗C-9203-QD1					
	 RightSight Field of View: 1.5° Emitter LED: Visible red 660 nm	21.6...264V AC/DC 15 mA	25 mm...1 m (1 in...3.28 ft)	Dark Operate	N-MOSFET/100 mA 8.3 ms	2 m 300V cable	42EF-C2SCA-A2	
10.8...30V DC 35 mA		4-pin AC micro			42EF-C2SCA-G4			
		NPN/PNP 100 mA 1 ms	2 m 300V cable	42EF-C2KBA-A2				
			4-pin DC micro	42EF-C2KBA-F4				
			Linear Polarized Sensors for Detection of Clear Films					
		 7000 Field of View: 3° Emitter LED: Visible red 660 nm	11...28V DC 46 mA	50 mm...1.5 m (2 in...4.9 ft)	Comple- mentary L.O./D.O.	NPN 100 mA 1 ms	3 m cable	42SMU-7250
4-pin DC micro							42SMU-7250-QD	
PNP 100 mA 1 ms	3 m cable					42SMU-7251		
	4-pin DC micro					42SMU-7251-QD		

⊗ R for standard (i.e. 42GRC-9200)
T for timing (i.e. 42GTC-9200)

Refer to page 1-150 for cordsets and accessories.