

July 2005

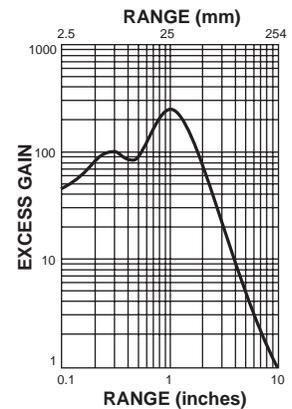
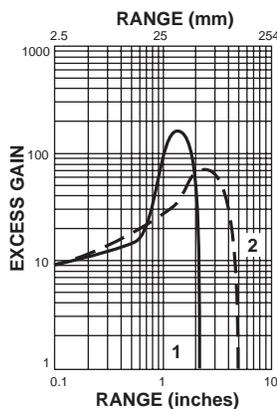
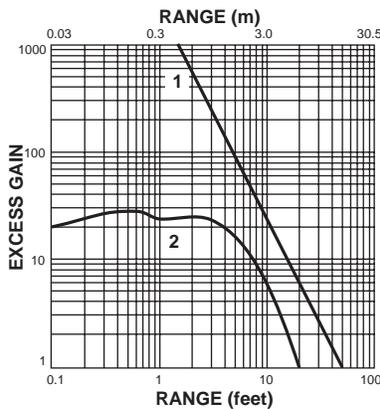
Model Selection — Compatible Connector Cables ①

	Voltage Style	Number of Pins	Gauge	Length	Catalog Number			Pin Configuration/Wire Colors (Face View Female Shown)
					PVC Jacket	PUR Jacket	IRR PUR Jacket	
Standard Cables — Micro Style								
	AC	4-pin 4-wire	22 AWG	6.0 feet (2m)	CSAS4F4CY2202	CSAS4F4RY2202	CSAS4F4IO2202	 1-Red/Black 2-Red/White 3-Red 4-Green
	DC	4-pin 4-wire	22 AWG	6.0 feet (2m)	CSDS4A4CY2202	CSDS4A4RY2202	CSDS4A4IO2202	 1-Brown 2-White 3-Blue 4-Black

① For a full selection of connector cables, see **Section 10**.

 Fast turn product with typical one day lead-time to shipment.

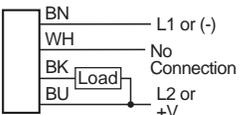
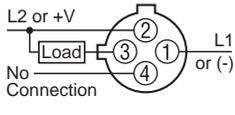
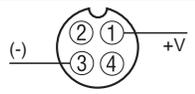
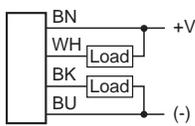
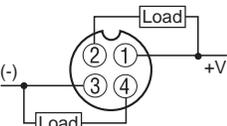
Excess Gain



Model Selection — Accessories

Description	Reference
Retroreflectors and Retroreflective Tape	See Section 8
Mounting Brackets	See Section 8
Replacement Mounting Nuts and Other Accessories	See Section 8
Connector Cables	See Section 10

Wiring Diagrams (Pin numbers are for reference only, rely on pin location when wiring)

Operating Voltage	Mode	Cable Models	Micro-Connector Models (Face View Male Shown)
3-Wire Sensors			
18 – 264V AC, 50/60 Hz or 18 – 50V DC	All Sensors	 BN — L1 or (-) WH — No Connection BK — Load BU — L2 or +V	 L2 or +V Load No Connection L1 or (-)
4-Wire Sensors			
10 – 30V DC	Thru-Beam Source	 BN — +V BU — (-)	 (-) +V
	All Others	 BN — +V WH — Load BK — Load BU — (-)	 Load +V (-) Load

Specifications

	AC/DC Models		DC Models
	AC Operation	DC Operation	
Input Voltage	18 – 264V AC, 50/60 Hz	18 – 50V DC	10 – 30V DC
Power Dissipation	4 VA maximum	4 VA maximum	2W maximum
Output Type	VMOS (bi-directional)	NPN (sink)	NPN and PNP (dual outputs)
Current Switching	200 mA maximum	200 mA maximum	100 mA maximum
Voltage Switching	264V AC	50V DC	30V DC maximum
OFF-State Leakage	500 μ A maximum	500 μ A maximum	10 μ A maximum
Surge Current	2A maximum	2A maximum	1A maximum
ON-State Voltage Drop	3.5V maximum	3.5V maximum	2.5V maximum
Response Time	16 mS	1 mS	1 mS
Protection	Short circuit and overload protection (Output Indicator LED will flash). Reverse polarity protection (Sensor will reset automatically once fault is removed). IMPORTANT: During installation, correct power connections must be made first to ensure fail-safe short circuit protection of the outputs		
Light/Dark Operation	By model		
Temperature Range	Operating: -13° to 131°F (-25° to 55°C); Storage: -13° to 158°F (-25° to 70°C)		
Material of Construction	Lens: Polycarbonate; Cable Jacket: PVC; Body: Cyclopol		
Cable/Connector	Cable Models: 6.5 foot (2m) 4-wire cable; Connector Models: 4-pin, micro-connector (AC-key on AC/DC models; DC-key on DC models)		
Vibration and Shock	Vibration: 30g over 10 Hz to 2 kHz; Shock: 50g for 10 mS 1/2 sinewave pulse		
Indicator LEDs	Green LED: Power; Red LED: Output; Orange LED: TargetLock™		
Source Light	Visible Red, 660 nm		
Gain Adjustment	3/4-turn pot, 10:1 adjustment of gain (provided on thru-beam and diffuse reflective sensors only)		
Sunlight Immunity	Perfect Prox®: 5,000 foot-candles; All others: 10,000 foot-candles		
Enclosure Ratings	NEMA 1, 3, 4, 4X, 6, 6P, 12 and 13; IP68 ①		

① NOTE: Our products conform to NEMA tests as indicated, however, some severe washdown applications can exceed these NEMA test specifications. If you have questions about a specific application, contact our Applications Department.

Approximate Dimensions in Inches (mm)

