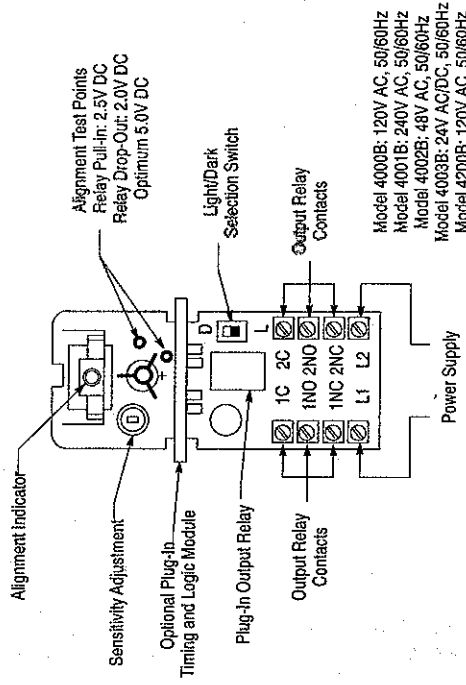


English		Español		English	Español		
Operating Distance Selection The maximum operating distance is based on installing the sensor in a relatively clean environment. Normal industrial environments actually range from moderately dusty to extremely dirty. Greater operating margin may be required which can be obtained by reducing the operating distance of the control.		Selección de Distancia de Operación La distancia máxima de operación se basa en la instalación del sensor en un ambiente relativamente limpio. Los ambientes industriales normales fluctúan entre moderadamente polvorosos a extremadamente sucios. Es posible que se requiera un margen de operación mayor, el cual puede obtenerse reduciendo la distancia operativa del control.		Indicators Red on indicates output for all sensors except Transmitted Beam Source. Red on indicates power on for Transmitted Beam Light Source.	Indicadores El rojo encendido indica la salida en todos los sensores, excepto en las Fuentes de Haz Transmitido. El rojo encendido indica alimentación presente en las Fuentes del Luz de Haz Transmitido.		
Wire Terminals				Open Collector NPN			
Infrared		Infrarrojo		DC Voltage Output Adaptor			
Visible Red		Rojo Visible		One Shot			
Red		Rojo		On and/or Off Delay			
Output		Salida		Delayed One Shot			
Power		Alimentación		Motion Detector			
False Pulse		Pulsos en Falso		Present Counter			
10-55Hz, 1mm amplitude, meets or exceeds IEC 947-5-2		10-55Hz, 1mm de amplitud, satisface o supera IEC 947-5-2		Counts			
30G, meets or exceeds IEC 947-5-2		30G, satisface o supera IEC 947-5-2		Retroreflective			
Light/Dark Selectable		Seleccionable Luz/Oscuridad		Polarized Retroreflective			
Control Only				Standard Diffuse			
DPDT EM-Relay (Included)				Transmitted Beam Source			
SPNO AC TRIAC				Transmitted Beam Receiver			
SPNO AC/DC FET							
English		Español		English		Español	
1	Connection	Conexión		15	Select Sensors	Elja Sensores	
	Sensing Distance	Dispositivo Sensor		16	Operating Voltage	Tensión de Operación	
2	Reflector	Reflector		17	Power Consumption	Consumo de Alimentación eléctrica	
	White Paper	Papel Blanco		18	Output	Salida	
3	Transmitting (LED)	LED de Transmisión		19	Select Optional Plug-In Output Module		
4	Indicators	Indicadores		20	Catalog Number	Número de Catálogo	
5	Field of View	Campo de Visión		21	Type	Tipo	
6	Sensitivity Adjustment	Ajuste de Sensibilidad		22	Load Current	Corriente de Carga	
7	Operating Temperature	Temperatura de Operación		23	Leakage Current	Corriente de Fuga	
8	Relative Humidity	Humedad Relativa		24	Response Time	Tiempo de Respuesta	
9	Housing/Lens Material	Material del Alojamiento de la Cubierta del Lente		25	Select Optional Plug-In Control Module		
10	Operating Environment	Ambiente de Operación		26	Function	Funcion	
11	Approvals	Aprobaciones		Adjustable Time Delay			
12	Protections	Protecciones		27	On	Encendido	
13	Vibration	Vibración			Off	Apagado	
14	Shock	Impacto		28	Adjustable Dwell		

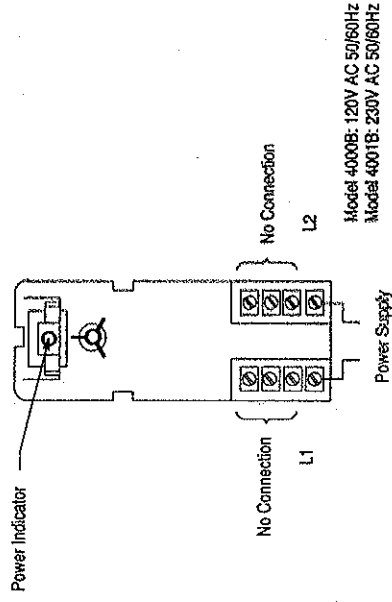
Wiring Diagrams

All Sensing Modes Except Transmitted Beam Light Source



Model 4000B: 120V AC, 50/60Hz
 Model 4001B: 240V AC, 50/60Hz
 Model 4002B: 48V AC, 50/60Hz
 Model 4003B: 24V AC/DC, 50/60Hz
 Model 4200B: 120V AC, 50/60Hz

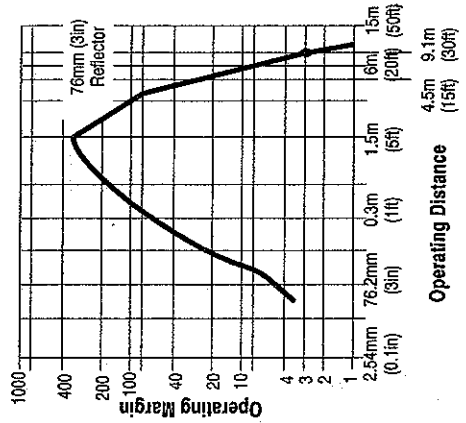
Transmitted Beam Light Source



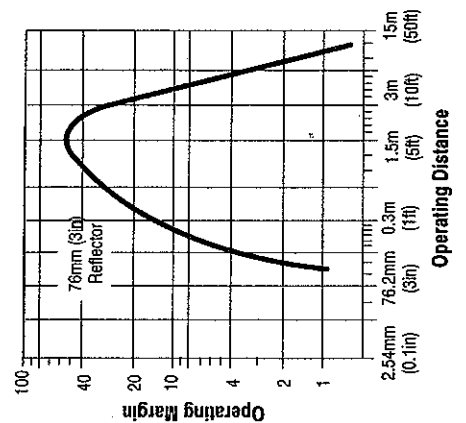
Note: Details regarding connection of Allen-Bradley Series 4000B sensors to Allen-Bradley Programmable Controllers can be found in publication 42 MR-4.0.

Typical Response Curves

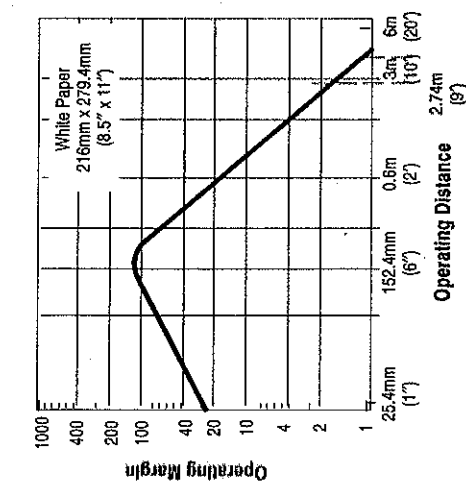
Retroreflective



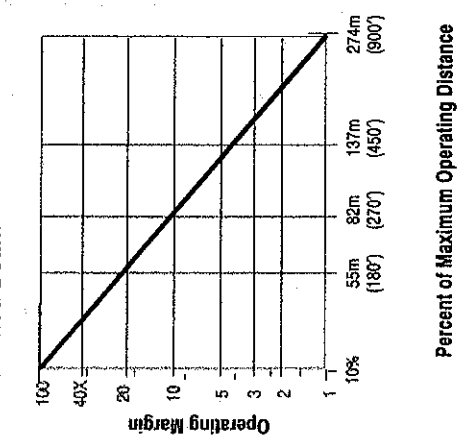
Polarized Retroreflective



Standard Diffuse



Transmitted Beam



Installation Instructions

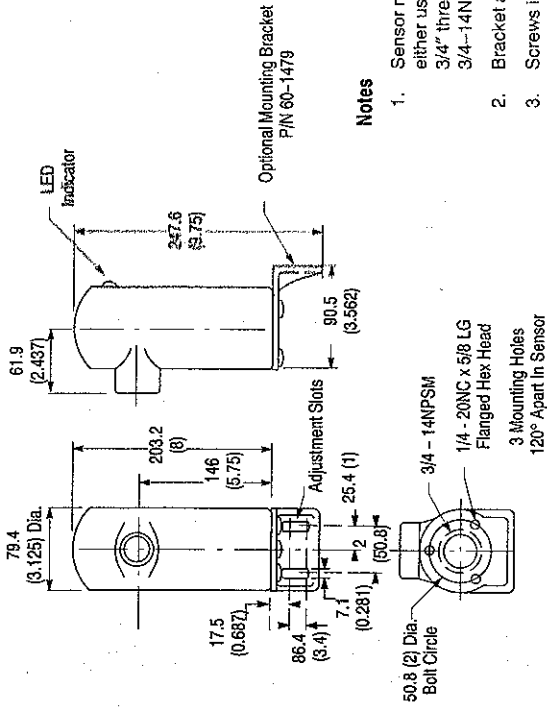
All Sensors		Retroreflective	Polarized Retroreflective	Standard Diffuse	Transmitted Beam	
		Wire Terminals			Source	Receiver
1	Connection	—				
	Sensing Distance	274m (900ft)				
2	76mm (3in) Reflector	10.6m (35ft)	7m (23ft)	—		
	White Paper	—		3.6m (12ft)	—	
3	Transmitting LED	Infrared 940nm	Visible Red 660nm	Infrared 940nm	—	
4	Indicators	Red: Output		Red: Power	Red: Output	
5	Field of View	1.5°	2°	4°	3°	
6	Sensitivity Adjustment	Yes				
7	Operating Temperature	-40°C to +57°C (-40°F to +135°F)				
8	Relative Humidity	5%-90%				
9	Housing/Lens Material	Noryl®/Acrylic				
10	Operating Environment	NEMA 3, 4, 12, 13, IP66				
11	Approvals	UL listed, CSA certified, and CE marked for all applicable directives				
12	Protection	False Pulse				
13	Vibration	10-55Hz, 1mm amplitude, meets or exceeds IEC 947-5-2				
14	Shock	30G, meets and exceeds IEC 947-5-2				

15	Select Sensors					
	Operating Voltage					
16	102-192V AC, 50/60 Hz	42RLU-4000B	42RLU-4203B	42RLP-4000B	42RL-4000B	42RLR-4000B
	195-253V AC, 50/60 Hz	42RLU-4001B	---	42RLP-4001B	42RL-4001B	42RLR-4001B
	40-58V AC, 50/60 Hz	42RLU-4002B	---	42RLP-4002B	---	---
	18-28V AC/DC, 50/60 Hz 20-32V DC	42RLU-4003B	---	42RLP-4003B	---	---
17	Power Consumption	2VA				
18	Output	Light/Dark Selectable				

Select Optional Plug-In Output Module							
19	Catalog Number	Control Only	8-670	8-651	8-652	63-115	63-116
20	Type	—	DPDT EM-Relay (Included)	SPNO AC TRIAC	SPNO AC/DC FET	Open Collector NPN	DC Voltage Output Adaptor
21	Load Current	—	5A @ 120V AC, 2.5A @ 240V AC	1A @ 24-240V AC	30mA @ 0-120V AC	250mA @ 30V DC	30mA @ 17V DC
22	Leakage Current	—	—	2mA	1.0μA	—	—
23	Response Time	5ms	10ms On, 15ms Off	8ms	—	1ms	—

25	Select Optional Plug-In Control Module									
20	Catalog Number	60-1612-1	60-1612-2	60-1613	60-1614	60-1625	60-1626	60-1680	60-1681	60-1716
26	Function	ONE SHOT		ON and/or OFF DELAY		DELAYED ONE SHOT		MOTION DETECTOR		PRESENT COUNTER
Adjustable Time Delay										
27	ON	—		0.05-1.0	0.5-1.5	0.10-1.5	1.0-1.5	—	—	2-999 Counts
	OFF	—		0.05-10	0.5-15	—	—	0.05-1.5	0.5-15	2-999 Counts
28	Adjustable Dwell	0.040-0.25	0.5-1.5	—		0.04-0.250		—	—	0.040-0.250

Dimensions—mm (inches)

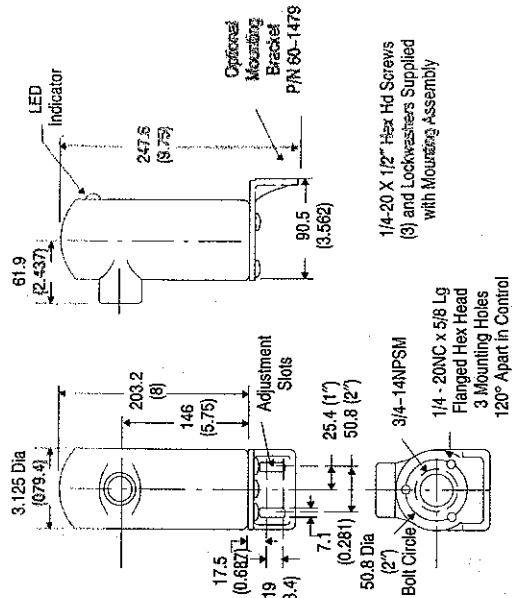


Notes

1. Sensor may be mounted without bracket, either using 3/4 - 20NC mtg. holes or on a 3/4" threaded pipe, thread pitch 3/4-14NPSM.
2. Bracket allows 360-degree adjustment.
3. Screws included with mounting bracket.

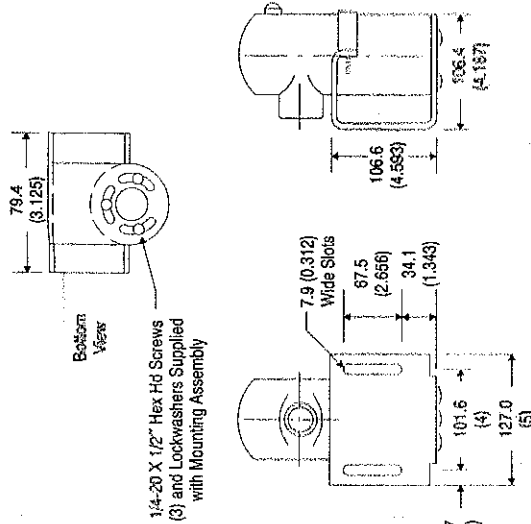
Note: Do not use lockwashers with supplied whiz-lock mounting screws.

General Purpose Mounting Assembly #60-1479



Note: Do not use lockwashers with whiz-lock mounting screws.

Heavy Duty Mounting Assembly #60-1655



NEMA 7 and 9 Hazardous Locations Enclosure #61-4921

