

INSTALLATION INSTRUCTIONS

PHOTOSWITCH® MINIATURE END VIEW

TRANSMITTED BEAM CONTROL, BULLETIN 40BY1/47BU1-4000

IMPORTANT: SAVE THESE INSTRUCTIONS FOR FUTURE USE. FOR ADDITIONAL INFORMATION REFER TO PUBLICATION PG-9000

BULLETIN NUMBER	TYPE	RESPONSE TIME	OPERATING DISTANCE		
			22DJ3-4000	22DJ4-4000 22DJ9-4000 22DJ9-4001	22DJ4-5000 22DJ9-5000
40BY1-4000 + 47BU1-4000	Light Source	Refer to 22 Series 4000 or 22 Series 5000	2' (.61m)	5' (1.52m)	3' (.90m)
	Receiver		With 63-70 Range Extender		
40BY1-4000 + 47BU1-4000 + 63-70	Diffuse		10' (3.05m)	25' (7.62m)	
			6" (.15m)	12" (.3m)	

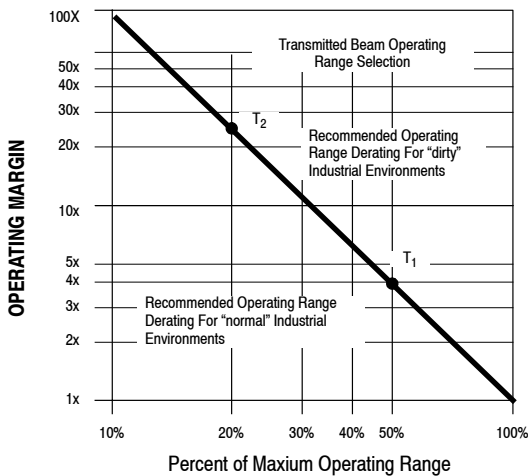
SPECIFICATIONS

- Field of View 7.5°
- Transmitting LED Infrared, 940nm
- Ambient Temperature Range .. -40°F to 185°F (-40°C to 85°C)
- Approvals UL Listed and CSA Certified
- Operating Environment .. NEMA 3, 4, 12, 13 and IP66 (IEC529)
- Housing High impact chemically resistant Housing
- Cable
 - Light Source 2 conductor vinyl jacketed cable 10' (3m)
 - Receiver 2 conductor vinyl jacketed cable 10' (3m)

OPERATING DISTANCE SELECTION

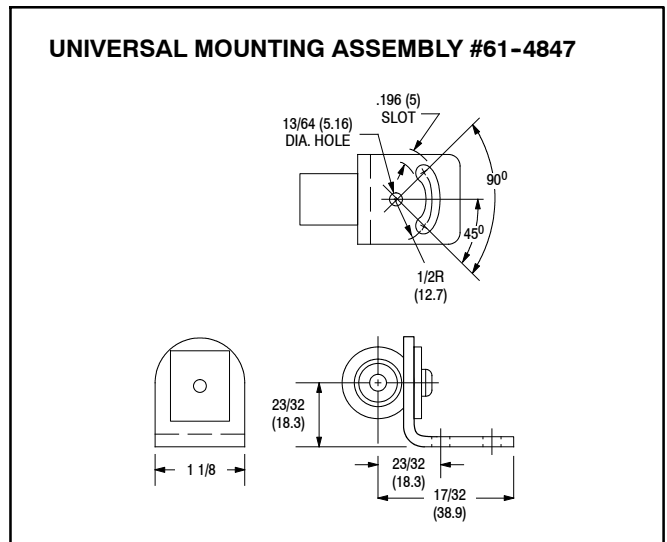
The maximum operating distance is based on installing the control in a relatively clean environment. Normal industrial environment actually ranges from moderately *dusty* to extremely *dirty*. Greater operating margin (excess gain) may be required, which can be obtained by reducing the operating distance of the control. (optics should be cleaned regularly.)

TYPICAL RESPONSE CURVE



INSTALLATION

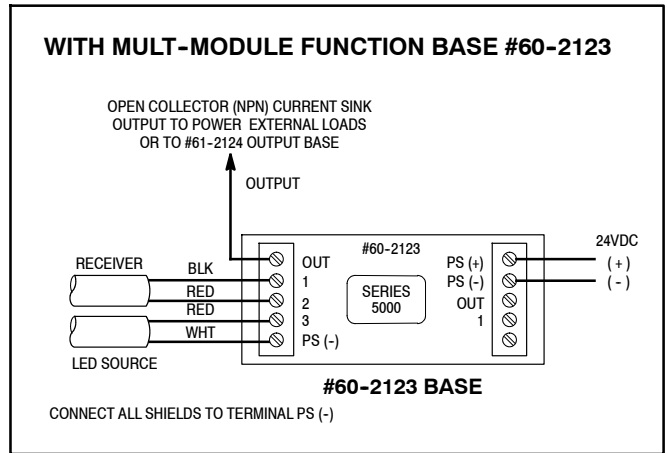
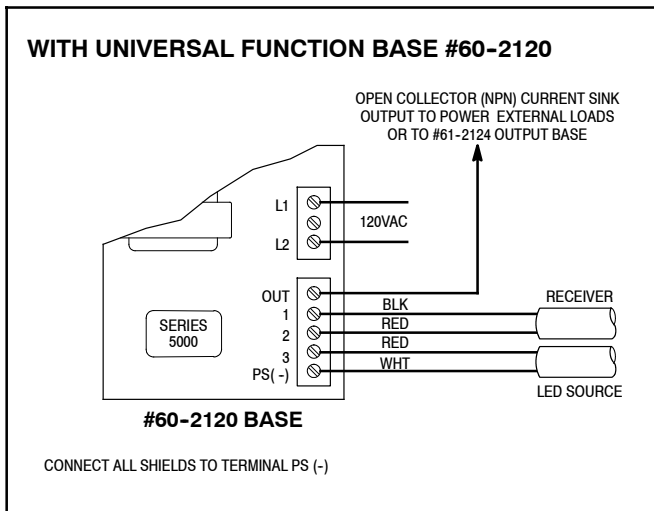
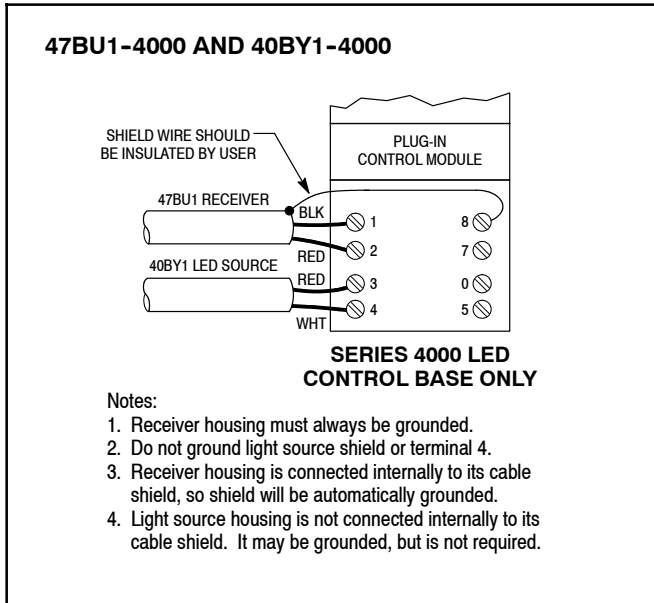
The control must be securely mounted on a firm, stable surface or support. A mounting which is subject to excessive vibration or shifting may cause intermittent operation.



WIRING

All external wiring should conform to The National Electric Code and applicable local codes. See wiring diagrams for external connections. For maximum electric shielding, rigid conduit is recommended for extensions of scanner wiring. **DO NOT RUN PHOTODETECTOR WIRES AND LINE VOLTAGES IN THE SAME CONDUIT.**

WIRING DIAGRAMS



ALIGNMENT

Set the amplifier to the light operate mode. Adjust the sensitivity to the maximum setting, turning the sensitivity potentiometer clockwise. Aim the light source at the receiver until the alignment indicator on the amplifier turns on.

To be certain that the beam is centered, sweep the receiver at the light source in the horizontal plane and determine the position where the alignment indicator turns on and then off. Do the same in the vertical plane. Set the beam halfway between both positions.

It may be necessary to reduce the sensitivity to a lower setting for transparent or translucent materials or to detect objects smaller than the effective beam.

DIMENSIONS

