



Installation

Select the detector installation site, usually in the center of the protected area. Please note that coverage area is more elliptical than circular (see figure 2). Avoid proximity to any of the following: reflective surfaces; direct air flow from vents, fans and windows; sources of steam/oil vapor; objects causing temperature changes such as heaters, refrigerators and ovens; and infrared light sources.

The DG467 provides ATC (Automatic Temperature Compensation) but it is still highly recommended to retest unit coverage with a walk-test if temperatures reach over 30°C (85°F). This is extremely important in non-ventilated areas.

To Install the DG467:

1. Remove the PCB screw, then carefully remove the PCB (see figure 3).
2. Drill screw / wire holes (see figure 3).
3. Run the wires through entry holes and connect them according to the PCB markings (see figure 1).

Opening and Closing the Cover (see figure 3)

- To replace the lens: Gently push the lens and bezel out of the cover.
- To reinstall the lens: Align the bezel pin with the matching hole in the lens and cover.
- To close the detector: Align the arrow in the cover with the arrow on the PCB and turn the cover clockwise.

Do not touch the sensor surface as this could result in detector malfunction. If necessary, clean with a soft cloth and pure alcohol.

Operational Modes

The DG467 can function in two different operational modes: combus mode or relay mode. This option can only be configured using the **J4** jumper.

Relay Mode: (J4 = OFF)

When set to Relay Mode, the DG467 functions as would any standard motion detector by communicating its alarm and tamper signals via relays. The **GRN** and **YEL** terminals are not used in relay mode. In Relay Mode, the detector's settings can only be modified using the jumpers (see figure 1).

Combus Mode: (J4 = ON)

When set to combus mode, the DG467 communicates alarm signals, tamper signals, data and detector settings via the panel's 4-wire combus. The detector's relay output always remains active even when set to combus mode and can be used to activate other devices.

In combus mode, the motion detector can be modified using the jumpers or by entering module programming mode.

In combus mode, the DG467 will respect the most recent modification whether it is made through the jumpers or through section programming. As a result, current jumper positions may not represent actual settings. All settings are stored in the DG467 even after it has been powered down.

Detector Settings

Step	Section / Jumper	Details
1 Operational Mode	J4	J4 OFF =Relay mode Δ (go to step 3) J4 ON =Combus mode (go to step 2)
2		Enter detector programming mode. Press and hold [0] + [INSTALLER CODE] + [4003] (EVO) or [953] (DGP-848) + SN.
3 Signal Processing Mode	[001] or J3	Single edge processing should be used in normal environments with minimal sources of interference. Dual Edge Processing provides better false alarm rejection if the detector is placed near sources of interference that can adversely affect it. [1] OFF =Dual edge [1] ON =Single edge Δ or J3 OFF =Dual edge J3 ON =Single edge Δ
4 LED Settings	[001] or J1	LED flash = Movement without alarm (see step 5) LED on 5 sec. = Movement with alarm [2] OFF =LED disabled [2] ON =LED enabled Δ or J1 OFF =LED disabled J1 ON =LED enabled Δ
5 Movement Without Alarm	[001]	Detects movement signals that do not reach the required energy levels for an alarm. The LED flashes once, indicating the signal was kept in memory. Note: The LED must be enabled. (see step 4) [3] OFF =Movement Without Alarm disabled [3] ON =Movement Without Alarm enabled Δ Note: In relay mode, this feature is always enabled.
6 Tamper Recognition	[001]	The detector can send a tamper signal to the control panel via the combus. [5] OFF =Tamper recognition disabled Δ [5] ON =Tamper recognition enabled
7 Digital Shield	[002] or J2	In High Shield mode, the detector is set for high-risk environments (potential interferences) and therefore provides greatly increased false alarm immunity. However, response time and detector speed may be slower. 000 =Very low shield (very high sensitivity) Δ 001 =Low shield (high sensitivity) 002 =Normal shield (normal sensitivity) 003 =High shield (low sensitivity) or J2 OFF =High shield J2 ON =Very low shield Δ

Δ= default settings

Utilities

Voltage Meter	[900]	Used for trouble-shooting, the voltage meter Indicates the DG467's input voltage. Displays [3-digit number] which represents input voltage x 10 e.g. [133] = 13.3V
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Powering The DG467

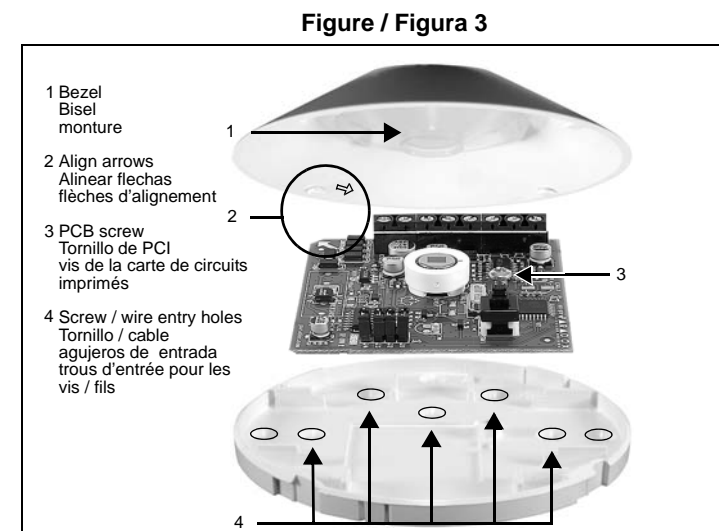
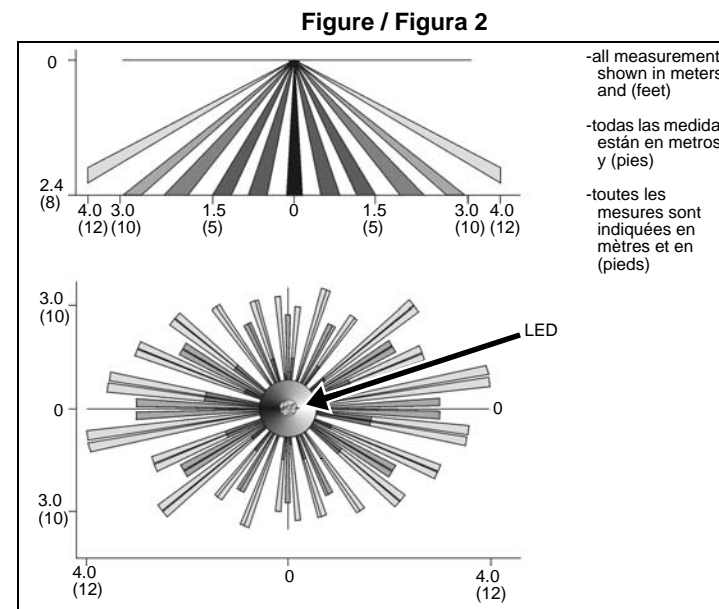
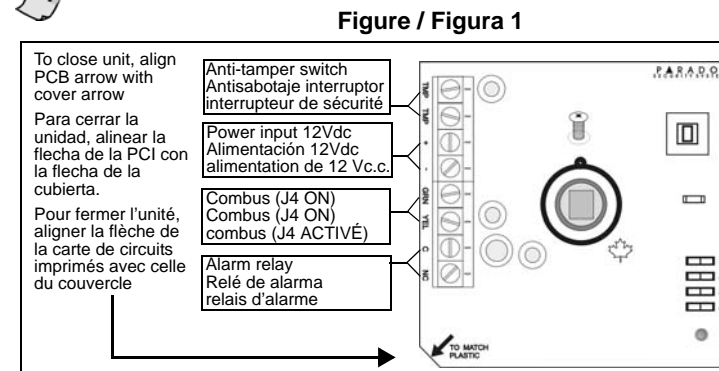
Self-testing program: Turning on the detector initiates a self-testing program for the signal processor, memory and relay. The LED flashes rapidly for approximately 4 seconds. The detector then switches to "stand-by" mode.

Walk-testing

At 20°C (68°F) you should not be able to cross more than one complete zone (consisting of 2 beams, left and right sensor detecting elements) in the coverage area with any kind of movement. When using a higher level digital shield settings, the amount of movement required to generate an alarm is increased.

When conducting a walk test, move slowly in order to generate weak signals. Try to move to the maximum coverage distance. An alarm is indicated by a constant light for 5 seconds.

Motion detectors should be walk-tested annually.



Technical Specifications

Sensor type:	Dual Opposed Element Infrared
Sensor geometry:	Rectangular
Detection speed:	0.2m/s to 3.5m/s (0.6ft/s to 11.5ft/s)
Coverage:	360°, 7m X 6m (24ft X 20ft) at a height of 2.4m (8ft) 360°, 11m X 6m (35ft X 20ft) at a height of 3.7m (12ft)
Installation height:	2.1m to 4m (7ft to 12ft)*
Operating temperature:	-20°C to +50°C (-4°F to +122°F)
Power input:	9 to 16Vdc, 29mA maximum at 12V
Lens:	LODIFF® segment Fresnel ceiling mount array
EMI / RFI rejection:	10V/m
Alarm output:	N.C. 28Vdc, 0.15A / via combus
Anti-tamper output:	N.C. 0.15A, 38Vdc, opens when cover is removed / via combus
Size:	10.8cm dia. X 3.5cm height (4.25" X 1.38" height)
Compatibility:	Combus Mode All Digiplex series (DGP/DGPNE) and all EVO series control panels. Relay Mode All major security system manufacturers

* Can be installed as high as 4.5m (14ft), however sensitivity will be compromised.

Español

Instalación

Elegir el lugar de instalación del detector, de costumbre al centro del área protegida. Tomar en cuenta que el área de cobertura es más elíptica que circular (ver la figura 2). Evitar ubicarlo cerca de las siguientes fuentes de interferencia: superficies reflectantes; corrientes de aire provenientes de sistemas de ventilación, ventiladores y ventanas; fuentes de vapor de agua / humo de aceite; objetos que provoquen cambios de temperatura como aparatos de calefacción, refrigeradores y hornos; y fuentes de luces infrarrojas.

El DG467 provee Compensación Automática de Temperatura pero se recomienda enfáticamente probar la cobertura de la unidad mediante una prueba caminando si la temperatura llega a 30°C (85°F) o más. Esto es de extrema importancia en áreas sin ventilación.

Para Instalar el DG467:

1. Retirar el tornillo de la PCI, y después retirar cuidadosamente la PCI (ver la figura 3).
2. Hacer agujeros para tornillos / cables (ver la figura 3).
3. Pasar los cables por los agujeros de entrada y conectarlos de acuerdo a las marcas de la PCI (ver la figura 1).

Abrir y Cerrar la Cubierta (ver la figura 3 en pág. 1)

- Para abrir el detector: Girar la cubierta de derecha a izquierda.
- Para reemplazar el lente: Empujar suavemente los lentes y el bisel afuera de la cubierta.
- Para reinstalar el lente: Alinear el pin del bisel con el agujero en el lente cubierta.
- Para cerrar el detector: Alinear la flecha en la cubierta con la flecha en la PCI. girar la cubierta de izquierda a derecha.

No tocar la superficie del sensor pues puede provocar el mal funcionamiento del detector. De ser necesario, limpiar con un paño delicado y alcohol puro.

Modos de Funcionamiento

El DG467 puede funcionar en dos modos diferentes de funcionamiento: modo combus o modo relé. Esta opción sólo puede ser configurada con el puente **J4**.

Modo Relé: (J4 = OFF)

Al estar configurado en Modo Relé, el DG467 funciona como un detector de movimiento estándar comunicando sus señales de alarma y de sabotaje mediante los relés. Los terminales **GRN** y **YEL** no son usados en el modo relé. En el Modo Relé, la configuración del detector sólo puede ser modificada mediante los puentes (ver la figura 1).

Modo Combus: (J4 = ON)

Al estar configurado en Modo Combus, el DG467 comunica las señales de alarma, de sabotaje, los datos y la configuración del detector mediante el combus de 4 cables de la central. La salida de relé del detector siempre permanece activa incluso cuando está configurada en modo combus y puede ser usada para activar otros dispositivos.

En el modo combus, el detector de movimiento puede ser modificado mediante los puentes o accediendo al modo de programación de módulo.

En el modo combus, el DG467 responde a la más reciente modificación efectuada mediante los puentes o mediante la programación de secciones. En consecuencia, las posiciones actuales de los puentes podrían no corresponder a la configuración en curso. Todas las configuraciones permanecen almacenadas en el DG467 incluso después de haberlo apagado.

Configuración del Detector

Paso	Sección / Puente	Detalles
1 Modo de Funcionamiento	J4	J4 OFF =Modo Relé Δ (ir al paso 3) J4 ON =Modo Combus (ir al paso 2)
2		Ingresar al modo de programación de detector: Pulsar y mantener [0] + [CÓDIGO DE INSTALADOR] + [4003] (EVO) ó [953] (DGP-848) + NS.

