INSTALLATION AND MAINTENANCE INSTRUCTIONS

BEAMHK
Heating Kit for use with the Transmitter/Receiver Unit of System Sensor Reflective Projected Beam Smoke Detectors

Electrical Specifications

Voltage:	15 to 32 V
Current:	92mA max at 32 V [1]
Power Consumption:	
Nominal:	1.6 W at 24 V
Maximum:	3 W at 32 V

General Description
The BEAMHK allows the transmitter/receiver of the System Sensor reflected beam smoke detectors to operate in environments prone to the formation of condensation.[2] Condensation forming on the beam detector unit may result in trouble or false alarm conditions. BEAMHK will lessen the likelihood of condensation by maintaining the unit at a temperature that is slightly higher than the surrounding air. The kit requires the use of an additional power supply for intelligent units that do not have the automatic test feature. Heaters used in conventional units, or intelligent units with the automatic test feature, will operate from a power supply already used to operate the beam unit.

The kit includes the following parts:

| Qty.	Description
1	Transmitter/Receiver Heater Assembly

Mounting and Wiring Instructions
1. Open front cover of the transmitter/receiver unit. Refer to the installation manual provided with the beam smoke detector for instructions.

2. Plug the transmitter/receiver heater assembly PCB into the provided slot on the optical assembly as shown in Figure 1. Insure that the connector is on the left side, and the resistors are facing outward as shown.

Figure 1

C0761-00
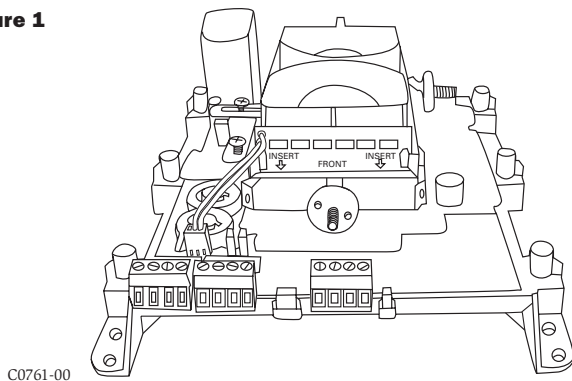
3. Plug the connector into pin-header labeled HEATER on the transmitter/receiver PCB as shown in Figure 2. Pin orientation does not matter. Please insure that the connector is installed properly on all three pins, or the heater will not work.

Figure 2

HEATER   OR   HEATER

C0765-00   C0761-00
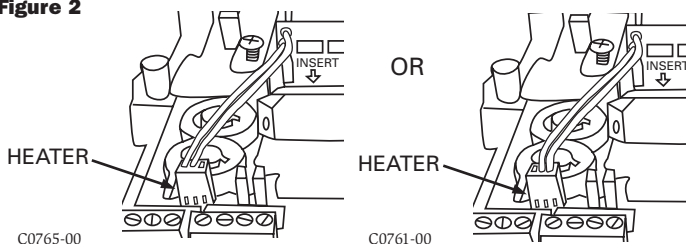
4. Connect the heater power supply wires as described below. If adding the heater kit to an existing installation, insure that the power supply connected to the beam detector is adequately rated for the additional power consumption of the heater.

Intelligent Units
Power is provided through terminal block T3-1 and T3-2 as shown. For units with the automatic test feature, this power is provided to both the automatic test feature and the heater. See illustration below.

Conventional Units
Power is provided through terminal block T1-1 and T1-2 as shown in Figure 3. Power for the beam unit is also provided at these terminals. See illustration below.

Figure 3

T3   T2   T1

(+)   (−)   (+)   (−)

Intelligent   Conventional   C0760-00
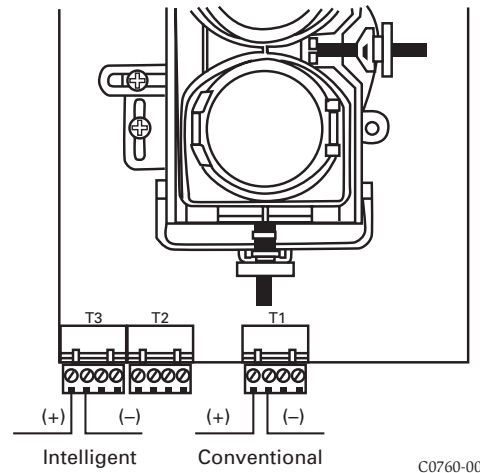
5. Align/realign beam smoke detector. Refer to the installation manual provided with the beam smoke detector for alignment instructions.

NOTES:
1. The electrical current specified is the requirement for the heater only. The power supply must be capable of powering the heater, and other devices that may be supplied through the same terminals.
2. The heater is intended for the prevention of condensation only. It is not intended to increase or reduce the specified operating temperature range of the beam smoke detector.

Three-Year Limited Warranty

System Sensor warrants its enclosed heating kit to be free from defects in materials and workmanship under normal use and service for a period of three years from date of manufacture. System Sensor makes no other express warranty for this heating kit. No agent, representative, dealer, or employee of the Company has the authority to increase or alter the obligations or limitations of this Warranty. The Company's obligation of this Warranty shall be limited to the repair or replacement of any part of the heating kit which is found to be defective in materials or workmanship under normal use and service during the three year period commencing with the date of manufacture. After phoning System Sensor's toll free number 800-SENSOR2 (736-7672) for a Return Authorization number, send defective units postage prepaid to: System Sensor, Repair Department, RA #_____, 6581 Kitimat Road, #6, Mississauga, Ontario, L5N-3T5. Please include a note describing the malfunction and suspected cause of failure. The Company shall not be obligated to repair or replace units which are found to be defective because of damage, unreasonable use, modifications, or alterations occurring after the date of manufacture. In no case shall the Company be liable for any consequential or incidental damages for breach of this or any other Warranty, expressed or implied whatsoever, even if the loss or damage is caused by the Company's negligence or fault. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.