

## **BOSCH Security Systems Motion Sensor Engineering Specification**

### **DS840LSN Mirrored PIR / Microwave Motion Sensor for the BOSCH Local Security Network bus loop**

#### **Product Overview**

##### **General Description**

The DS840LSN is a wall mount PIR/Microwave with a 40ft x 40 ft (~13m x ~13m) coverage area. It is a multiplex unit that operates on the Bosch LSN bus using the CM250 SIC200 LSN IC. The TriTech unit uses passive infrared and microwave technologies to provide an alarm condition upon activation of both technologies fields of protection. Characteristic features include: multiple focal length mirrored optics, PIR sensor and circuitry, a Microwave Doppler system, field-proven electronics, microcontroller-based signal processing with temperature compensation and self test diagnostics.

##### **Function List**

- LSN multiplex bus operation
- Detection: Passive InfraRed signal detection and processing (1st step processing or similar)  
Microwave signal detection and processing (adaptive type processing)
- Coverage Range: 40ft x 40 ft (~13m x ~13m)
- Temperature monitoring and resultant processing compensation
- Remote panel selectable alarm sensitivity
- Small Animal Immunity (Rats, birds, etc.) / Pet immunity with masking
- Remote LED enable/disable (WalkTest mode)
- Supervision: PIR & MW Self Test diagnostics
- Cover Tamper monitoring
- Transmission of alarm, self test trouble or tamper status to panel via multiplex bus
- LED indication of Powerup, PIR, MW and dual alarm conditions (when LED's enabled)

#### **Features and Specifications**

##### **Housing**

Utilizing an existing enclosure. Base P/N 28198M, Cover P/N 28199G w/ filter window 28200F.  
Previously used on the DS935VdS.  
Overall Dimensions: 4.25in x 2.75in x 1.8in (10.8cm x 7cm x 4.6cm)

Material: GE Plastics Cycolac ABS Grade T  
Color: Frost #2692

Alt. Material: Grand Pacific Petrochemical ABS D150A  
Color: Equivalent to GE Frost #2692