

# Geoffrey

*MultiProx™*

*Multi-Technology Proximity Reader*



The MultiProx Reader makes it possible to replace an existing Schlage/Westinghouse card access control system with any Wiegand protocol system, while maintaining your existing card population and installed wiring. The MultiProx Reader reads both Geoffrey proximity access cards and Schlage/Westinghouse (1030, 1040, or 1050) access cards. Now, future card requirements for the new system can be met with Geoffrey's low-cost family of Proximity cards.

The MultiProx Reader makes the replacement of an aging Schlage/Westinghouse system easy and cost effective. The Geoffrey components are drop-in replacements for the "old gear". Simply replace the

existing sensor, 708/808 controller, and multiple switch monitor (MSM) with the Geoffrey reader, controller, and Geoffrey switch module (GSM). The innovative design of the MultiProx Controller allows for the translation of Schlage card numbers to Wiegand formatted data. The standard MultiProx Reader features include multicolor LED and beeper, both with internal and external controls for enhanced user feedback.

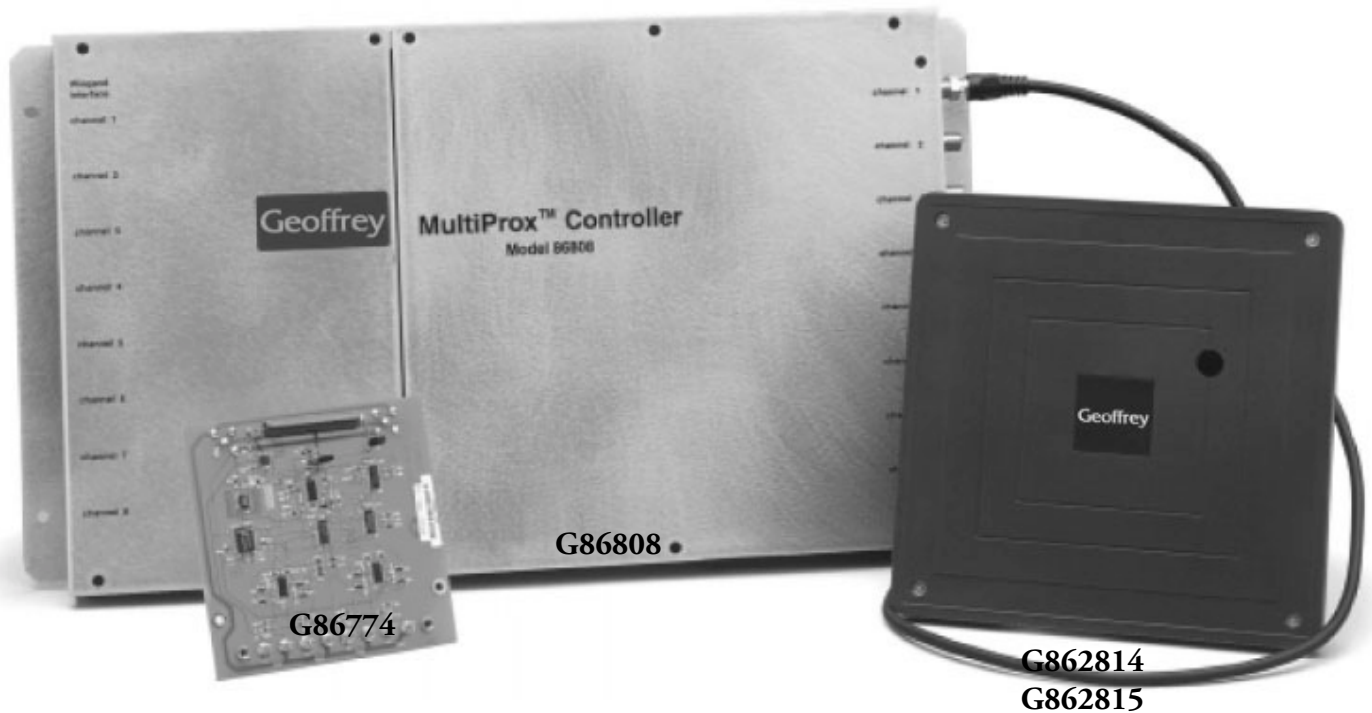
Geoffrey is committed to bringing advanced technology to the radio frequency identification market. The MultiProx components are a continuing example of this commitment.

## DESCRIPTION

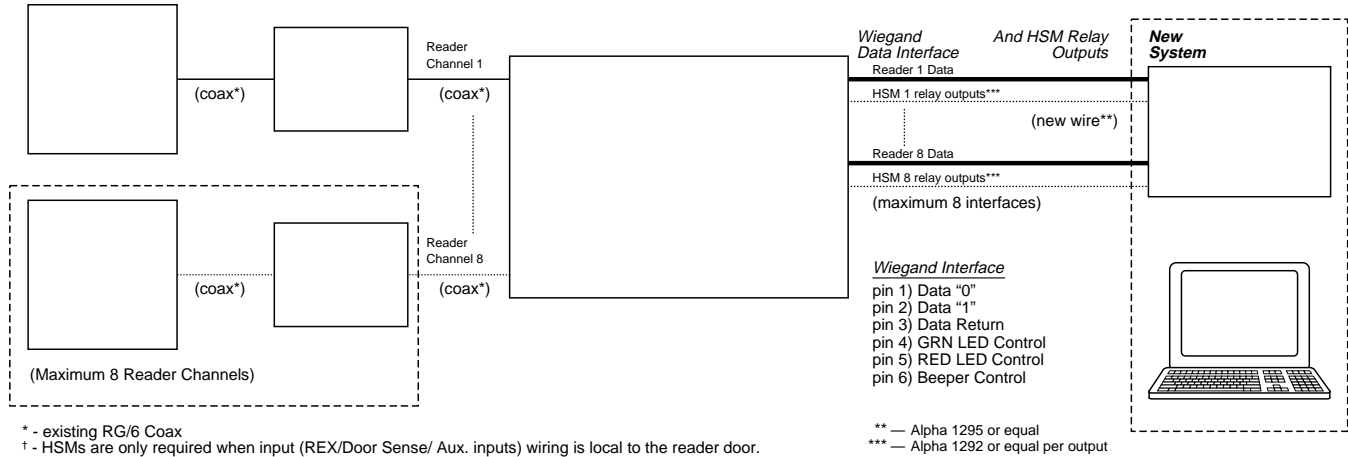
Geoffrey MultiProx Multi-Technology Reader operation requires three components - the controller, the reader, and the Geoffrey switch module (GSM). The MultiProx Controller scans eight channels for the presence of either a Geoffrey or Schlage/Westinghouse proximity access card. When a valid card is presented, the facility code and card number are decoded by the controller. The Schlage card information is transmitted as a selectable 26-bit or 32-bit Wiegand message from the controller to the access control system. The Geoffrey card information

is transmitted in the card's originally encoded bit format - i.e. a 32-bit card will transmit as 32 bits to the access control system.

The GSM transmits the contact status to the MultiProx Controller, which translates the switch status to a Form C relay output for direct transmission to the access control system. The controller scans the LED and beeper inputs and sends control information to the reader to activate these features.



## MultiProx READER SUBSYSTEM LAYOUT DIAGRAM



## COMPONENTS

**MultiProx Reader:** The MultiProx Reader reads the Geoffrey or Schlage proximity card when the card is presented. The reader is a direct electrical and mechanical replacement for the Schlage 2700 or 2800 series sensor. The reader features a multicolor LED and beeper for enhanced user feedback. Two reader versions are available - side connection or rear connection.

**MultiProx Controller:** The MultiProx Controller replaces the Schlage 708 or 808 series sensor controller. The controller scans eight channels, which communicate with the installed reader and GSMs. Each channel has an input for coax cable from the reader and/or GSM and a Wiegand interface output port for its respective reader. When a valid card is read, the facility code and card number are decoded by the controller and transmitted via the Wiegand output port to the new control panel. The controller includes a selectable DIP switch for transmission of either a 26-bit or a 32-bit Wiegand message to the host system. Status changes for inputs monitored by the GSM are transmitted via Form C relays to the new access control panel.

**MultiProx GSM:** The MultiProx GSM replaces the Schlage MSM, which contains four inputs for dry contacts. These inputs are typically used for door sensors, request to exit (REX), or other alarm inputs. The GSM detects and transmits the status of the dry contacts to the controller. The controller has four Form C relays for each channel that mimic the respective dry contacts.

## FEATURES

**Installation:** The MultiProx Reader directly replaces existing Schlage/Westinghouse access control equipment without replacing any existing cabling.

**Cost Effective:** The MultiProx Reader is quick and easy to install. Meet expanding card requirements with the introduction of low-cost Geoffrey proximity cards to existing Schlage access cards populations.

**Mounting:** The MultiProx Reader Directly replaces the existing Schlage sensor. No modifications to existing mounting hardware, mounting holes and cable locations is required.

**Audiovisual indication:** When a proximity card is presented to the reader, the red LED flashes green and the beeper sounds. The multicolor LED and beeper also can be controlled individually by the host system.

**Indoor/outdoor design:** The MultiProx Reader is sealed in a rugged, weatherized polycarbonate enclosure designed to withstand harsh environments as well as provide a high degree of vandal resistance.

**Easily interfaced:** The MultiProx Reader interfaces with all existing Wiegand protocol access control systems. The facility code and card numbers of the Schlage cards are presented in a 26-bit or 32-bit Wiegand format.

**Warranty:** The MultiProx Reader Components are warranted against defects in materials and workmanship for life from date of shipment.

## SPECIFICATIONS

### MultiProx Reader

- **Typical maximum\* read range:**
    - ProxCard® II Card up to 3" (7.5 cm)
    - ISOProx® II Card up to 2" (5 cm)
    - Schalge Card up to 2" (5 cm)
  - **Dimensions:**  
7.5" x 7.5" x 0.8" max.  
(19 x 19 x 2 cm)
  - **Material:**  
Polycarbonate UL 94
  - **Power requirements:**  
50 mA at 24 VDC (powered by the controller)
  - **Temperature:**
    - Operating -40° to 150° F (-40° to 65° C)
    - Storage -40° to 185° F (-40° to 65° C)
  - **Operating humidity:**  
0-95% relative humidity non-condensing over specified temperature
  - **Weight:**  
15 oz (426 gm)
- \* Depending on local installation conditions.

### MultiProx Controller

- **Dimensions:**  
18" x 10" x 1.8" max.  
(45.7 x 25.4 x 4.6 cm)
- **Enclosure material:**  
Aluminum
- **Power requirements:**  
2.0 mA at 24 VDC
- **Temperature:**
  - Operating 0° to 122° F (-20° to 50° C)
  - Storage -40° to 185° F (-40° to 65° C)
- **Operating humidity:**  
0-95% relative humidity non-condensing
- **Weight:**  
3 lb. 4.6 oz. (1,491 gm)
- **Cable distance:**
  - Wiegand interface: 500 ft (150 M)
  - Coax cable: 1,000 ft max (300 M)

### MultiProx GSM

- **Dimensions:**  
4.3" x 4.4" x 1.4" max.  
(10.9 x 11.2 x 3.6 cm)
- **Power requirements:**  
Powered by the controller
- **Temperature:**
  - Operating -40° to 150° F (-40° to 65° C)
  - Storage -40° to 185° F (-40° to 65° C)
- **Operating humidity:**  
0-95% relative humidity non-condensing
- **Weight:**  
3 oz (85 gm)

## ORDERING INFORMATION

Model/ Description	Part No. for Ordering	Replaces Schlage/ Westinghouse
G862815 MultiProx Reader Side Connect	G5385AGS00	2715, 2815 Sensors
G862814 MultiProx Reader Back Connect	G5385AGB00	2714, 2814 Sensors
G86808 MultiProx Controller	G6000BNN00	708, 808 Series Controllers
G86774	G6020ANC00	MSM Model 774

# Geoffrey

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