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 HID proximity access cards and Schlage/Westinghouse (1030, 1040, or 1050) access cards. Now, future card requirements for the new system can be met with the HID's low-cost family of proximity cards.

The MultiProx reader makes the replacement of an aging Schlage/Westinghouse system easy and cost effective. The HID components are drop-in replacements for the "old gear". Simply replace the existing sensor, 708/808 controller, and multiple switch monitor (MSM) with the HID MultiProx reader, controller, and HID switch module (HSM). The innovative design of the MultiProx controller allows for the translation of Schlage card numbers to Wiegand formatted data. Standard MultiProx reader features include multicolor LED and beeper, both with internal and external controls for enhanced user feedback.
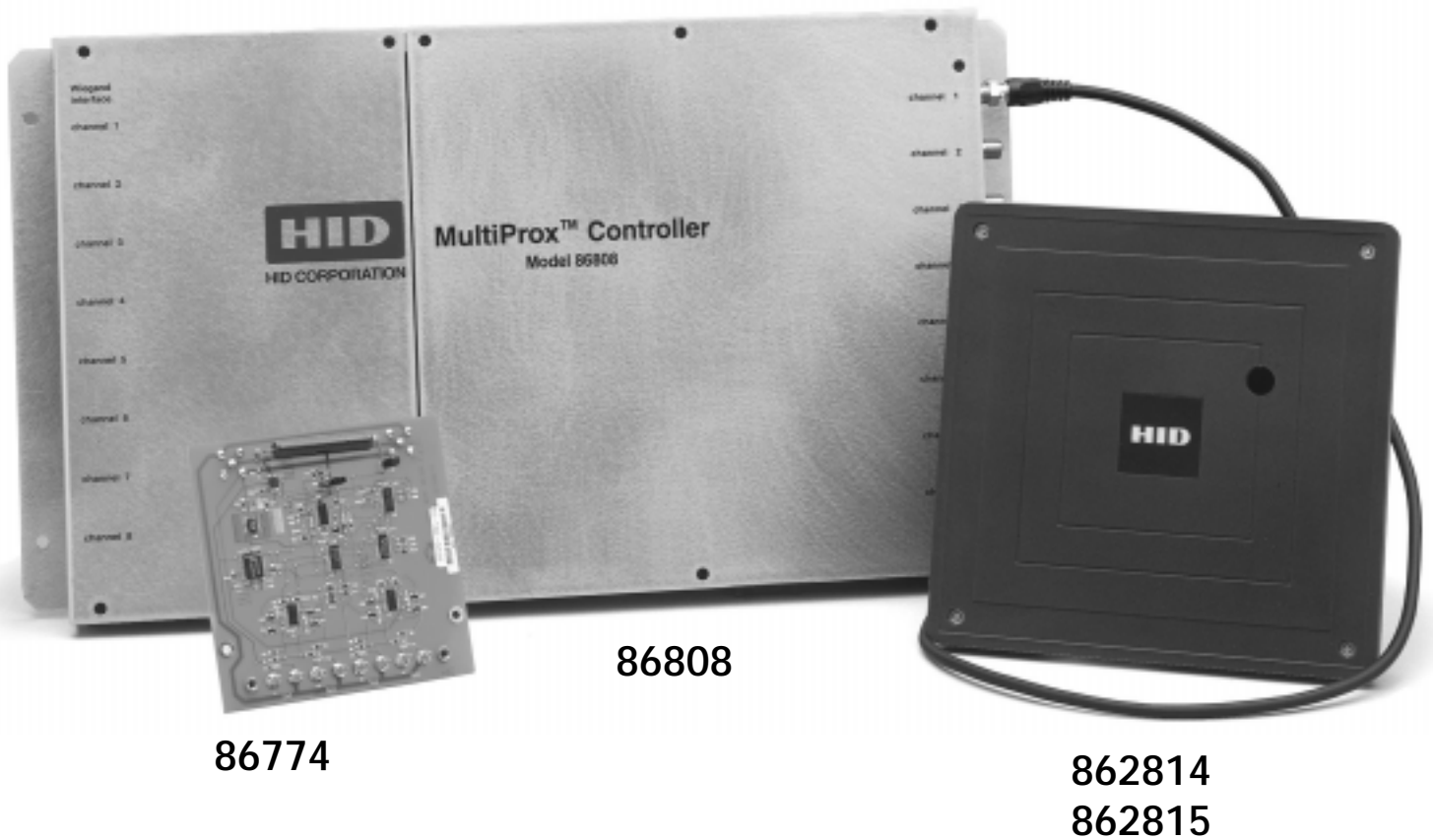
HID is committed to bringing advanced technology to the radio frequency identification market. The MultiProx components are a continuing example of this commitment.
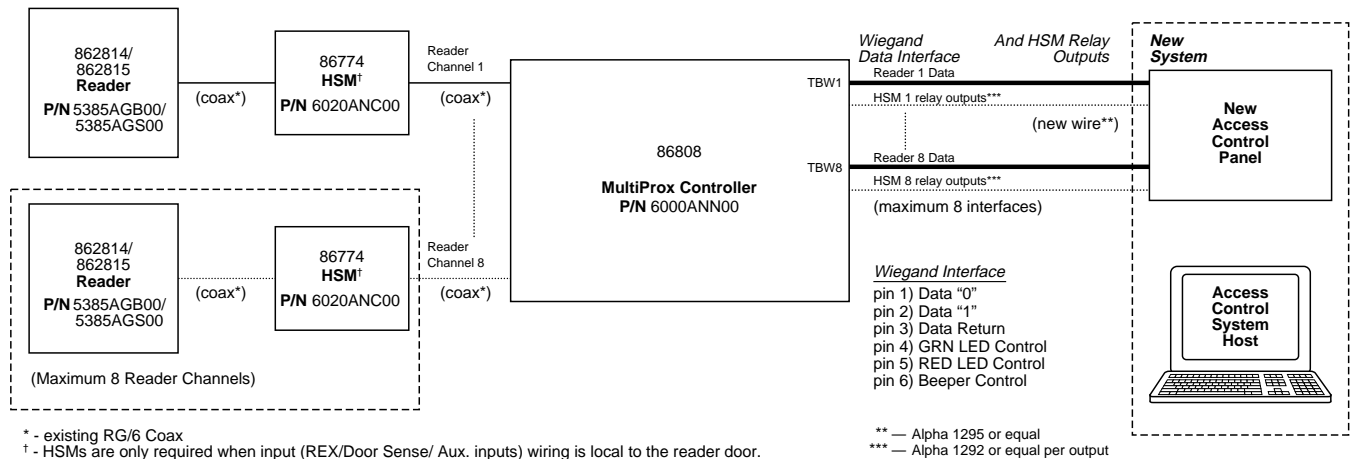
Description

HID MultiProx Multi-Technology Reader operation requires three components – the controller, the reader, and the HID switch module (HSM). The MultiProx controller scans eight channels for the presence of either an HID 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 HID 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 HSM 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.

86808

86774

862814
862815

MultiProx Reader Subsystem Layout Diagram


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862814/
862815
Reader
P/N 5385AGB00/
5385AGS00        (coax*)      86774        Reader
                              HSM†         Channel 1
                              P/N 6020ANC00   (coax*)

862814/
862815
Reader
P/N 5385AGB00/
5385AGS00        (coax*)      86774        Reader
                              HSM†         Channel 8
                              P/N 6020ANC00   (coax*)

(Maximum 8 Reader Channels)
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86808
MultiProx Controller
P/N 6000ANN00

Wiegand   *And HSM Relay*   **New**
Data Interface   *Outputs*   **System**
Reader 1 Data
TBW1
HSM 1 relay outputs***   **New Access Control Panel**
                              (new wire**)
Reader 8 Data
TBW8
HSM 8 relay outputs***

(maximum 8 interfaces)

Wiegand Interface
pin 1) Data "0"   **Access Control System Host**
pin 2) Data "1"
pin 3) Data Return
pin 4) GRN LED Control
pin 5) RED LED Control
pin 6) Beeper Control

* - existing RG/6 Coax
† - HSMs are only required when input (REX/Door Sense/ Aux. inputs) wiring is local to the reader door.

** — Alpha 1295 or equal
*** — Alpha 1292 or equal per output

Components

MultiProx Reader
The MultiProx Reader reads the HID 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 readers and HSMs. Each channel has an input for the coax cable from the reader and/or HSM 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 access 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 HSM are transmitted via Form C relays to the new access control panel.

MultiProx HSM
The MultiProx HSM 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 HSM 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, HID 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 are 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 represented in a 26-bit or 32-bit Wiegand format.

Warranty:
All MultiProx reader components are warranted against defects in materials and workmanship for life from date of shipment. (See complete warranty policy for details.)

Specifications

MultiProx Reader

Typical maximum* read range:

ProxCard® II card	up to 3" (7.5 cm)
ISOProx® II card	up to 2" (5 cm)
Schlage card	up to 2" (5 cm)

Dimensions:
7.5" x 7.5" x 0.8"
(19 x 19 x 2 cm)

Weight:
15 oz. (426 gm)

Temperature:

Operating	-40° to 150° F (-40° to 65° C)
Storage	-40° to 185° F (-40° to 85° C)

Operating humidity:
5-95% relative humidity noncondensing
over specified temperature

Material:
Polycarbonate UL 94

Power requirements:
50 mA @ 24VDC (Powered by the controller)

*Depending on local installation conditions.

MultiProx Controller

Dimensions:
18.0" x 10.0" x 1.8"
(45.7 x 25.4 x 4.6 cm)

Weight:
3 lb. 4.6 oz. (1,491 gm)

Cable distance:

Wiegand interface:	500 feet (150 m)
Coaxial cable:	1,000 feet max. (300 m)

Temperature:

Operating	-0° to 122° F (-20° to 50° C)
Storage	-40° to 185° F (-40° to 85° C)

Operating humidity:
5-95% relative humidity noncondensing

Enclosure material: Aluminum

Power requirements: 2.0 Amp @ 24VDC

MultiProx HSM

Dimensions:
4.3" x 4.4" x 1.4"
(10.9 x 11.2 x 3.6 cm)

Weight:
3 oz. (85 gm)

Power requirements:
Powered by the controller

Temperature:

Operating	-40° to 150° F (-40° to 65° C)
Storage	-40° to 185° F (-40° to 85° C)

Operating humidity:
5-95% relative humidity noncondensing

Ordering information

Model/Description		Part No. for Ordering	Replaces Schlage/Westinghouse
862815	MultiProx Reader Side Connect	5385AGS00	2715 and 2815 Sensors
862814	MultiProx Reader Back Connect	5385AGB00	2714 and 2814 Sensors
86808	MultiProx Controller	6000BNN00	708 or 808 Series Controllers
86774	MultiProx HSM Interface	6020ANC00	MSM Model 774

(Please see "How to Order" guide for a description of the options and associated part numbers.)

HID