MULTI PROX READER INSTALLATION

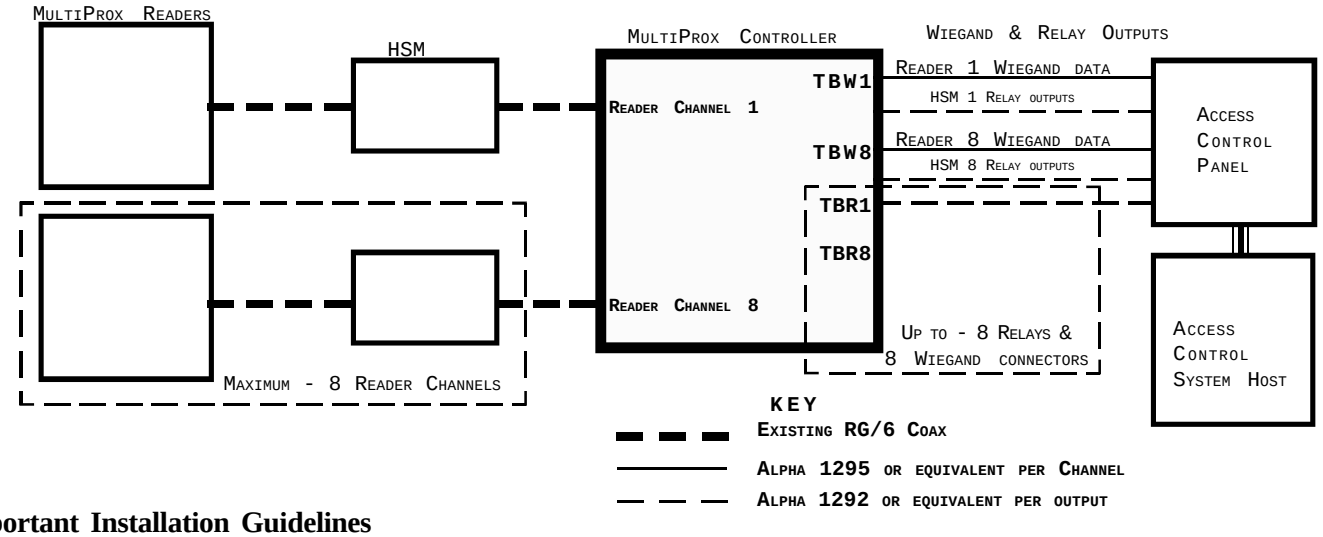
Model # 5385AGS00 (Side Mount)
Model # 5385AGB00 (Back Mount)

Parts List (Included)	Quantity
1) MultiProx Reader (p/n 5385AGS or B)	1
2) Installation Manual	1
3) Label for front cover- HID logo	1
4) Terminal Connector	1
Not Included	
Parts Recommended	
1) Cable, Coax - RG6 or SE 9284 1000ft Maximum	A/R
2) Electrical tape or shrink tubing	A/R
Parts Recommended (If this is not a Retrofit)	
1) F-56 crimp-on connectors	2
2) Crimping tool	1

INSTALLATION REQUIREMENTS

The MultiProx Reader subsystem is used in conjuction with the MultiProx Controller to retrofit existing Schlage/ Westinghouse System Sensors. The following instructions will explain the installation procedure for the MultiProx Reader. The instructions include these sections:

MultiProx System Layout Diagram



Important Installation Guidelines

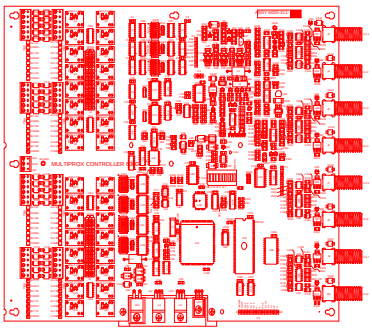
1. The MultiProx Reader must be located a minimum of 6 inches away from electrical wiring, conduit, metal wall studs or metal pipes from the back.
2. The MultiProx Reader must be located a minimum of 2 inches (5.08cm), on all sides, away from any metal objects including rebar, metal mesh, sheet metal, or metal beams.
3. Mounting the MultiProx Reader in an enclosure is acceptable, provided that a minimum of 3 inches (7.62cm) clearance is maintained on all sides (no metal on the front).
4. Insulate all cable connectors with electrical tape or shrink tubing so contact is not made with any metal or conductive material.
5. The MultiProx Reader should not be mounted within 6 feet of any monitors (VDTs or CRTs). The scan frequencies of most monitors may interfere with the signal received from the access control cards. Motors and electronic devices generate RF noise that may interfere with the reception of the signal from an access control card.

MultiProx Reader Installation

Mounting Instructions:Retrofitting an existing Sensor

1. Locate the existing Schlage/Westinghouse Sensor. Determine the type (side or back mount, Figure 2). Verify the existing location is suitable for the MultiProx Reader (See: *Important Installation Guidelines*, pg.1)
2. Remove the SE Sensor from the wall and then remove the coax cable from the SE Sensor.
3. Connect the MultiProx Reader to the coax cable (hand tight). Insulate the connector using electrical tape or shrink tubing. DO NOT use wrenches or pliers to tighten the F connectors.
4. Mount the MultiProx Reader using the existing Sensor hardware.

FIGURE 2



Connecting the Reader Cable to the MultiProx Controller

1. Connect the Coax Cable to the MultiProx Controller. Note which channels are connected to each Reader location. (Figure 3) The Reader coax channel numbers are labeled on the top cover of the Controller.

READER CHANNEL 1 → TO READER

FIGURE 3
MULTIPROX CONTROLLER

Note: For wiegand interface connections, see the MultiProx Controller Installation Manual.

Configuring the DIP Switch Settings on the MultiProx Controller

1. Determine the number of Reader Channels in use. On the MultiProx Controller, set SW2: switch 6 & 7 to reflect the appropriate number of Reader Channels in use. *(See page 4 of the MultiProx Controller Installation Manual for more detail.)*
2. To set the LED and Beeper Switches for each Reader, refer to the **LED and Beeper Switch Setting Chart** in the MultiProx Controller Installation Manual (Figure 8, page 6).

Specifications for the MultiProx Reader

Operating Limits

Operating voltage range.....14 - 28.5VDC Supplied by the Controller
Absolute maximum voltage.....28.5VDC

Environmental

Enclosure rating.....Outdoor rated to NEMA 4X
Enclosure material.....Polycarbonate
Weight.....15 oz.
Operating temperature range.....-40 to 65°C (-40 to 150°F)
Storage temperature.....-40 to 85°C (-40 to 185°F)
Operating humidity range.....5 to 95% Non-condensing
Operating vibration limit..... .04 G^2/Hz 20 - 2000Hz
Operating shock limit.....30g, 11mS half sine

Operating parameters

Read distance/ProxCard II .....2.5 - 4 inches over operating limits, 3.0 inches typical
Read distance/Schlage 1050.....0.75 - 3 inches over operating limits, 1.75 inches typical
Read distance/Schlage1030/1040....1.0 - 3.5 inches over operating limits, 2.0 inches typical
Excitation frequency .....125kHz generated internally (Prox mode)
Excitation frequency .....2-30MHz generated on the (Sweep mode) controller
Minimum clearance from metal.....4 inches behind, 2 inches on the side
Minimum clearance from wiring.....6 inches
Minimum metal enclosure size.....13” square by 3” deep no cover
Connector.....F type rear mount & side mount