

Wall Mounted Reader Installation

This installation guide applies to the following types of readers:

- B-SMF, B-SM – Smart Mullion Reader
- B-BSMF, B-BSM – Bluetooth, Smart Mullion Reader
- B-BSPMF, B-BSPM – Bluetooth, Smart, Prox Mullion Reader

Included:

- (2) #6 Screws
- Reader, Backplate, and Wall Plate
- (1) #4-40, (1) pin-in-torx

The Following tools will be needed to install a wall mount reader:

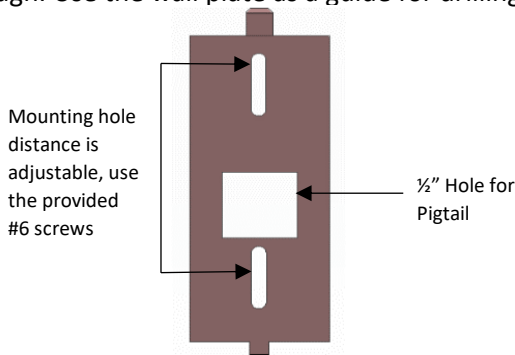
- Phillips Screwdriver
- 6-32 Tap (if installing on metal)
- 1" (25mm), 1/8" drill bits
- T8 Security Torx Bit (optional for increased tamper detection)

IMPORTANT: For Bluetooth readers, write down the serial number of the Brivo reader to configure it for Brivo Onair Pass.

Serial Number

1 Mounting Holes for Wall Plate

Drill two mounting holes at a minimum of 1.7" apart. Drill a 1/2" hole in the center for the pigtail wire to pass through. Use the wall plate as a guide for drilling.



2 Install Metal Wall Plate

Once the holes are prepared, screw the wall plate in using the provided #6 screws.



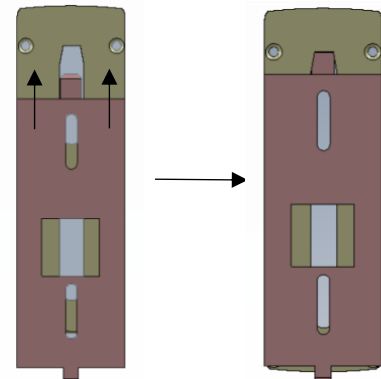
3 Wire the Cable to the Control Panel

Wiegand/OSDP Connections	
Green	Data 0 (RXD+ when using OSDP on ACS300)
White	Data 1 (RXD- when using OSDP on ACS300)
Black	Ground
Yellow	DO NOT USE
Red	12 VDC
Blue	Green LED Control
Orange	DO NOT USE

Max Length to Panel	
Length	AWG
200' (60 m)	22
300'	20
500'	18
Current @ 12 V and 25 C	
Avg. mA	Max. mA
106	144

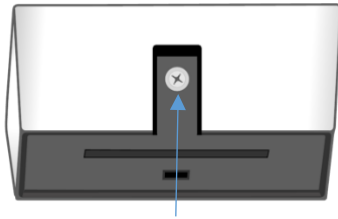
4 Attach the Reader to the Wall plate

Align the reader so that the tabs of the base plate slide into the slots on the wall plate and slide the reader into position.



5 Install the Reader Screw

Install the #4-40 screw or pin-in-torx at the bottom of the reader.



Screw or pin-in-torx

6 OSDP Mode Setup

SKIP THIS STEP IF USING WIEGAND MODE

- On ACS6000 panels, set the RS485 switch to “on”.
- Upon power up, the reader will auto-detect connection to an OSDP port.
- After power up, two beeps confirm the reader is operating in OSDP mode.
- To reconfigure a reader to Wiegand mode, tilt the reader 45 degrees (tamper) and power cycle.
- After power up, four beeps confirm the reader is operating in Wiegand mode.
- Mount to wall.

7 Reader Mode Indicators

Upon a power reset, the Brivo readers provide a reset sequence using the LED indicator and the beeper, to provide information about the reader type and its communication mode. The first sequence (sequence A) describes the credential technologies built in the reader:

- A single red LED flash indicates Bluetooth credential support
- A single green LED flash indicates 13.56 MHz credential support
- A single amber LED flash indicates 125 kHz credential support

Sequence A is followed by sequence B. Sequence B indicated the reader communication protocol:

- Two beeps (with green LED Flash) indicate that the reader is in OSDP-only communication mode
- Four beeps (with green LED Flash) indicate that the reader is in Wiegand communication mode (with OSDP auto-detect)

To test: Power the reader and wait for the power up LED beep sequence to complete. Present a valid credential to the reader and the light-bar will turn green. If the test fails, check the wiring. All wiring methods used shall be in accordance with the National Electrical Code, ANSI/NFPA 70.

Reader must be powered by a compatible UL Listed, power limited, access control panel with voltage range 5 – 16 VDC.

Performance Levels

- Destructive Attack: I
- Line Security: I
- Endurance: IV (125 kHz, 13.56 MHz), I (BLE)
- Standby Power: I

Approvals

EN302291, EN301489, EN300330, IP55, UL294

Patents - US9558377, & US9747738B1

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.