



Smart Reader v2 Installation Instructions

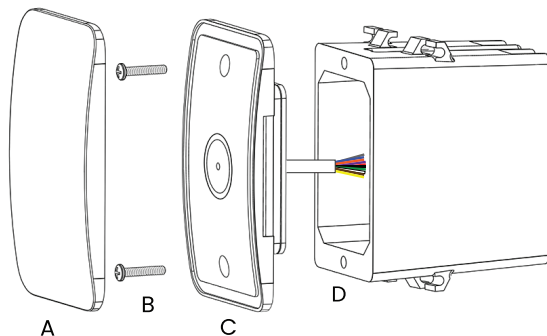


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Mounting Instructions

The Standard Reader (OP-R2-STND) can be flush mounted on a single gang box or surface mounted using the provided back plate.

Standard Reader Installation – Flush Mount



To Flush Mount (recommended):

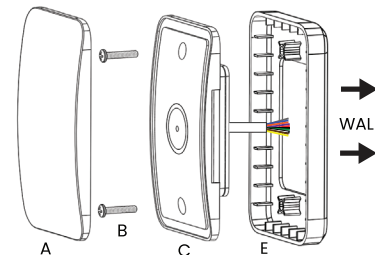
1. Install a recessed single gang box (D) into the wall.
2. Strip and connect the wires.
3. Use the provided screws (B) to attach the reader (C) to the wall. Do not use the provided back plate for flush mount installations.
4. Snap on the front cover (A).

NOTE: Do not use adhesive.

Dimensions:

No back cover, on gang box: 7.4 x 12.0 x 1.1 cm (2.9 x 4.7 x 0.43 in)

Standard Reader Installation – Surface Mount



NOTE: The flat side of the back plate should face the wall.

No adhesives necessary.

To Surface Mount:

1. If not installing on a gang box, place the reader (C) inside the back plate (E).
2. Strip and connect the wires.
3. Use wall anchors and the appropriate screws (not included) to attach the reader (C and E) to the wall.
4. Snap on the front cover (A).

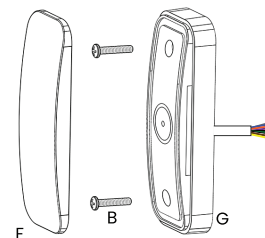
NOTE: Do not use adhesive.

Dimensions:

With back cover, no gang box: 7.4 x 12.0 x 2.3 cm (2.9 x 4.7 x 0.9 in)

The Mullion Reader (OP-R2-MULL) can be surface mounted where space is limited, like on a door frame.

Mullion Reader Installation



To Mount:

1. Strip and connect the wires.
2. If installing on a metal surface, drill and tap in order to use the provided screws (B). Or, use self-tapping screws (not included). Attach the reader (G) to the wall.
3. Snap on the front cover (F).

NOTE: Do not use adhesive.

Dimensions:

4.3 x 11.9 x 2.2 cm (1.7 x 4.7 x 0.86 in)

Wiring Information

PIGTAIL color	Name (short)	Name (full)
Gray	GND	Ground (RTN)
Blue	+B	RS485-B
Violet	-A	RS485-A
Orange	VIN	+12V IN

Primary ACU
Connections

Red	VO	Wiegand Voltage
Black	GND	Wiegand RTN
Green	WD0	Wiegand Data 0
White	WD1	Wiegand Data 1
Brown	LED	Wiegand LED
Yellow	BUZZER	Wiegand Buzzer

Connections to 3rd Party
Wiegand Reader

Temperature must not exceed -22°F to 140°F (-30°C to 60°C)

Openpath readers and ACUs communicate via RS-485. The following wire types are compatible, listed in the order of preference which impacts distance:










- **Shielded CAT6A** (recommended, additional two pairs can be used for sensors)
- Shielded CAT6
- Shielded RS485 w/22-24AWG (lower gauge, thicker wire is better)
- Shielded CAT5
- Unshielded CAT6
- Unshielded CAT5
- Shielded 22/6
- Unshielded 22/6

NOTE: Use one twisted pair for GND and VIN and one twisted pair for +B and -A.

Recommended maximum cable length: 300 ft (91 m) with CAT6 or 500 ft (152 m) if two wire pairs are used for GND and VIN (power).

For shielded wiring: Connect one side of the drain wire (the shield around the wires) to the GND terminal on the ACU. Both the shield and the GND wire can share the same GND terminal. Do not connect the other side of the shield to anything.

Status LED Color Codes

	center dot is solid white	entry is locked
	outer ring is solid white	entry is unlocked
	center dot flashes multiple colors, outer ring quickly spins once	reader has just received power
	all lights are off	reader not connected to power (check to see if the power wires are swapped)
	center dot is flashing red	reader is connected to power but cannot communicate with the ACU (check to see if the +B [blue] and -A [violet] lines are swapped)
	center dot is solid blue	reader not configured as an entry in the Control Center
	center dot is solid green and the outer ring is solid white	reader has been identified via the Control Center
	center dot is solid purple and the outer ring is solid white	reader not receiving enough voltage or current – try connecting the reader directly to the ACU, bypassing any wire runs
	center dot is solid pink and the outer ring is solid white	check that +12V IN (orange) hasn't been swapped with +B (blue) or -A (violet)

Need Help?

Technical support
support@openpath.com
1-844-673-6728 ext 2
openpath.com/support

Install guides



Compliance

Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

WARNING: Operation of this equipment in a residential environment could cause radio interference.

WARNING: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Industry Canada Notice and Marking

This device complies with the ICSED radiation exposure limit set forth for an uncontrolled environment. This device should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme avec l'exposition aux radiations ICSED définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimum de 20 cm entre le radiateur et votre corps. Cet émetteur ne doit pas être co-localisé ou opérant en conjonction avec une autre antenne ou transmetteur.

This device complies with Industry Canada license-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'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference and
(2) this device must accept any interference received, including interference that may cause undesired operation.

The frequency and the maximum transmitted power in EU is listed below:
Bluetooth LE(2402-2480MHz): 2 dBm

Smart Reader v2
OP-R2-STND, OP-R2-MULL
Power rating:
12/24VDC == 0.25/0.12A



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Material | 100P 模造紙

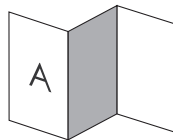
Ink | 四色彩印 / 雙面印刷

Extended size | 139.7(H)*285.75(W) mm

Molding size | 139.7(H)*95.25(W) mm

Molding method | Z字折

對折線



部門	外觀設計課			料號	6709A3823000			
日期	2021/03/22	比例	1/1	單位	mm	工業設計工程師	Dona	
該專案經理人或業務之內容核准			Albert	檢圖	Rennier			