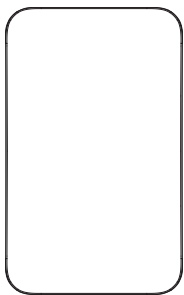


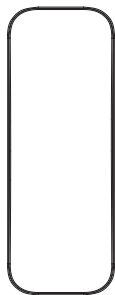
AVIGILON™

SMART READER V2



Some hardware may show the Openpath logo.

OP-R2X-STND



OP-R2X-MULL



QuickStartGuide-OP-R2X-STND-MULL-Rev1

CONTENTS

OP-R2X-STND

- 1 x Standard Reader
- 1 x Surface mount bracket
- 2 x 6-32 x 3/4" Screws
- 1 x Avigilon DESFire EV3 card

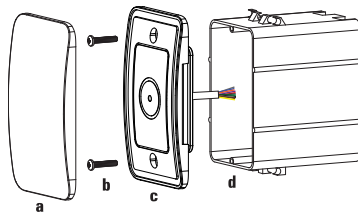
OP-R2X-MULL

- 1 x Mullion Reader
- 2 x 6-32 x 3/4" Screws
- 1 x Avigilon DESFire EV3 card

1 - STANDARD READER

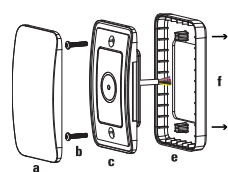
OP-R2X-STND can be flush mounted in a single gang box or surface mounted using the provided bracket.

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 surface mount bracket for flush mount installations.
4. Snap on the front cover (a).

SURFACE MOUNT



Note: The flat side of the surface mount bracket must face the wall. No adhesives are necessary.

1. Place the reader (c) inside the surface mount bracket (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.

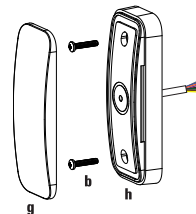
2 - MULLION READER

OP-R2X-MULL can be surface mounted where space is limited.

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

Note: Do not use adhesive.

SURFACE MOUNT



3 - WIRING

Avigilon readers and ACUs communicate via RS-485. The compatible wire types are listed in order of preference which impacts distance.

- **Shielded Cat 6A** (recommended; extra two pairs can be used for sensors)
- **Shielded Cat 6**
- **Shielded RS-485 with 22-24 AWG** (lower gauge, thicker wire is better)
- **Shielded Cat 5**
- **Unshielded Cat 6**
- **Unshielded Cat 5**
- **Shielded 22/6**
- **Unshielded 22/6**

Note: Use one twisted pair for GND and VIN (power) and one twisted pair for +B and -A (data).

Connections from Avigilon ACU to Avigilon reader

Pigtail color	Short name	Full name
Gray	GND	Ground (RTN)
Blue	+B	RS485-B
Violet	-A	RS485-A
Orange	VIN	+12V IN

Connections to third-party Wiegand reader (optional)

Pigtail color	Short name	Full name
Red	VO	Wiegand Voltage

Pigtail color	Short name	Full name
Black	GND	Wiegand RTN
Green	WD0	Wiegand Data 0
White	WD1	Wiegand Data 1
Brown	LED	Wiegand LED
Yellow	BUZZER	Wiegand Buzzer

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

FCC COMPLIANCE

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

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.

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 ISED 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 ISED définies pour un environnement non contrôlé. Cete 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-localisées ou opérant en conjonction avec une autre antenne ou transmetteur

This device contains licence-exempt transmitter(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSSI(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.

L'émetteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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.

The frequency and the maximum transmitted power in EU is listed below.

Bluetooth LE (2402-2480MHz): 2 dBm

CERTIFICATIONS

CE, FCC, IC, IMDA, IP65, MET, RCM, RoHS, UKCA, UL294, WEEE

Power rating: 12/24VDC = 0.25/0.12A

	BE BG CZ DK DE EE IE EL ES FR HR IT CY LV
	LT LU HU MT NL AT PL PT RO SI SK FI SE

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