



Mounting this reader on (or near) metal may impair the read range of the unit.

SPECIFICATIONS

performance level for access control

This product complies with the following UL294 Access Control Performance Levels:

Destructive Attack	Level 1
Line Security	Level 1
Endurance	Level 4 Prox
	Level 1 Bluetooth
Standby Power	Level 1

See the UL Listed access control unit controller installation instructions for reader compatibility.

environmental

Operating Temperature	-31°F to +151°F	(-35°C to +66°C)
Humidity	86 ±3°F	(85 ±5% at 30 ±2°C)
Ingress Protection	IP65	(not evaluated by UL)
Positioning	Suitable for OUTDOOR use.	

electrical

Power supply	Power is to be provided by a UL294 Listed, low-voltage Class 2 power limited supply or control panel, capable of 4 hours standby.
Voltage	+10Vdc to +16Vdc

Current	Model	Part No.	Idle and Peak current at 12Vdc	
			Average	Peak
	3M Inline	3MIL-R11030	15mA	35mA
	3M Mullion	3MIL-R11330	41mA	82mA
	3M S-Gang	3MIL-R11320	41mA	82mA
	3M S-Gang Keypad	3MIL-R11325	62mA	100mA

Data Voltage	Rest >4Vdc / Active <1Vdc
Data Output	Wiegand, Clock & Data, Custom Outputs
Indication	1 RGB LED (+ RGB LED illuminated keypad to 3MIL-R11325)
Sounder	Integral speaker

dimensions

Model	Part No.	Size - Inches (millimetres)
3M Inline	3MIL-R11030	3.8 x 2.1 x 0.8 in (96 x 52 x 21 mm)
3M Mullion	3MIL-R11330	3.8 x 2.1 x 0.8 in (96 x 52 x 21 mm)
3M S-Gang	3MIL-R11320	4.7 x 3.0 x 0.8 in (120 x 76 x 21 mm)
3M S-Gang Keypad	3MIL-R11325	4.7 x 3.0 x 0.8 in (120 x 76 x 21 mm)

polymeric materials

Potting compound	UL R/C (QMFZ2)
Mouldings	UL746C

wiring

Wiring methods shall be in accordance with the National Electrical Code (ANSI/NFPA70), local codes, and the authorities having jurisdiction.

Recommended cable	BELDEN 953x (or equivalent UL listed) for Wiegand. BELDEN 9502 (or equivalent UL listed) for RS485. All cable and wiring must be Listed and suitable for use.
Cable length	Up to 492 feet (150 m) from controller.
Minimum recommended wire size	Not less than 24 AWG.

reader connections

These connections are common to all readers in the BD series.

	1 - 0V	Supply voltage ground
	2 - +Vdc	Supply voltage (+10Vdc to +16Vdc)
	3 - DATA1/CLK	Wiegand or Clock/Data output
	4 - DATA0/DAT	Wiegand or Clock/Data output
	5 - GREEN	Green LED control input
	6 - RED	Red LED control input
	7 - Buzzer	Buzzer control input
	8 - TMPR/CP	Tamper or Card Present output
	9 - RS485-	RS485 Bus
	10 - RS485+	RS485 Bus

3millID - 3M Inline

3MIL-R11030



- 125kHz
- Supra® BT LE (2.4GHz)

3millID - 3M Mullion

3MIL-R11330



- 125kHz
- 13.56MHz
- Supra® BT LE (2.4GHz)

3millID - 3M S-Gang

3MIL-R11320



- 125kHz
- 13.56MHz
- Supra® BT LE (2.4GHz)

3millID - 3M S-Gang Keypad

3MIL-R11325



- 125kHz
- 13.56MHz
- Supra® BT LE (2.4GHz)

These notes are provided as a general guidance for mounting, fixing and connecting 3millID - 3M series RFID readers. Please consult your installer and the manufacturer's details of your control panel, when configuring your access security system.

GENERAL GUIDANCE NOTES **1** to **7** APPLIES TO ALL READER MODELS LISTED OVERLEAF

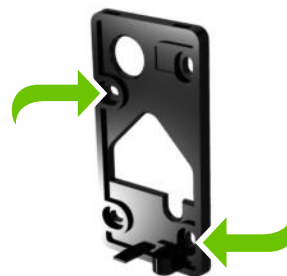
1 If fitted, remove reader module securing screw.



2 Pull bottom edge of reader module away from the backplate, and lift up.



3 Mount the reader backplate to a flat surface using suitable hardware having a diameter no greater than 0.15 in (4mm).



4 Once the backplate has been mounted, make wire connections to the reader module in accordance with the screw terminal connections shown below, and your control panel requirements. Ensure the cable does not impair or prevent the reader module being secured.

1	- 0V	Supply voltage ground
2	- +Vdc	Supply voltage (+10Vdc to +16Vdc)
3	- DATA1/CLK	Wiegand or Clock/Data output
4	- DATA0/DAT	Wiegand or Clock/Data output
5	- GREEN	Green LED control input
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7	- Buzzer	Buzzer control input
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5 Position the reader module, ensuring the top-edge fixing lugs engage correctly with the recesses located at the top of the backplate.



6 Swing the bottom edge of the module down and forward until you feel the unit click shut.



7 Secure the reader module to the backplate using the M3x100mm screw as supplied.

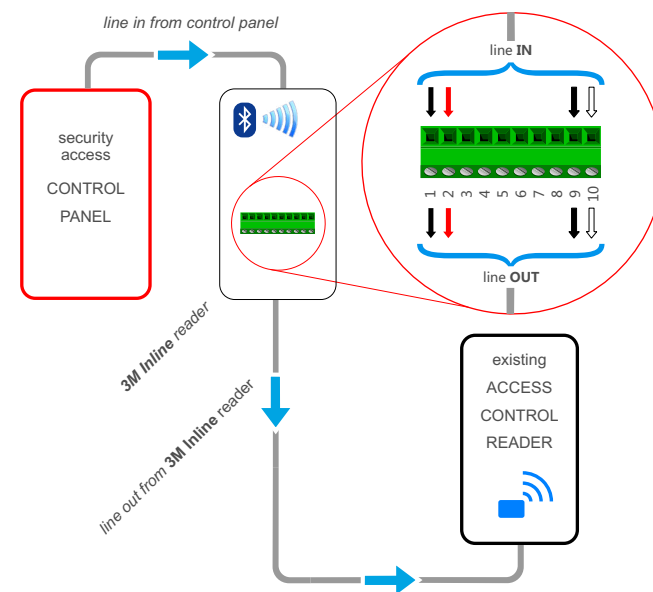


If required, you may opt to use security screw.

4b Applicable to **3M Inline** add-on reader only. The following is a diagrammatic representation of the wiring configuration providing a Bluetooth capability to most existing installations. Please consult your installer and the manufacturer's details of your existing control panel and access control reader.

(THIS CONFIGURATION NOT EVALUATED BY UL)

pin	line IN	line OUT
1	0V	0V
2	+Vdc (+12Vdc)	+Vdc (+12Vdc)
3	N/A	N/A
4	N/A	N/A
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	RS485 -	RS485 -
10	RS485 +	RS485 +



These devices comply 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.

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

These devices contains: FCC ID: TCZ-10103751G1



Together with information provided by suppliers and subcontractors, these devices comply with the requirements and relevant provisions of:

EU Directive 2011/65/EC.



This symbol on the product or on its packaging indicates that the product must not be disposed of with normal household waste. Instead, it is your responsibility to dispose of your waste equipment by arranging to return it to a designated collection point for the recycling of waste electrical and electronic equipment. By separating and recycling your waste equipment at the time of disposal you will help to conserve natural resources and ensure that the equipment is recycled in a manner that protects human health and the environment.

EU Directive 2012/19/EU



These RFID proximity readers comply with the essential requirements and relevant provisions of:

EU Directive 2014/53/EC



EQUIPMENT
BP21018