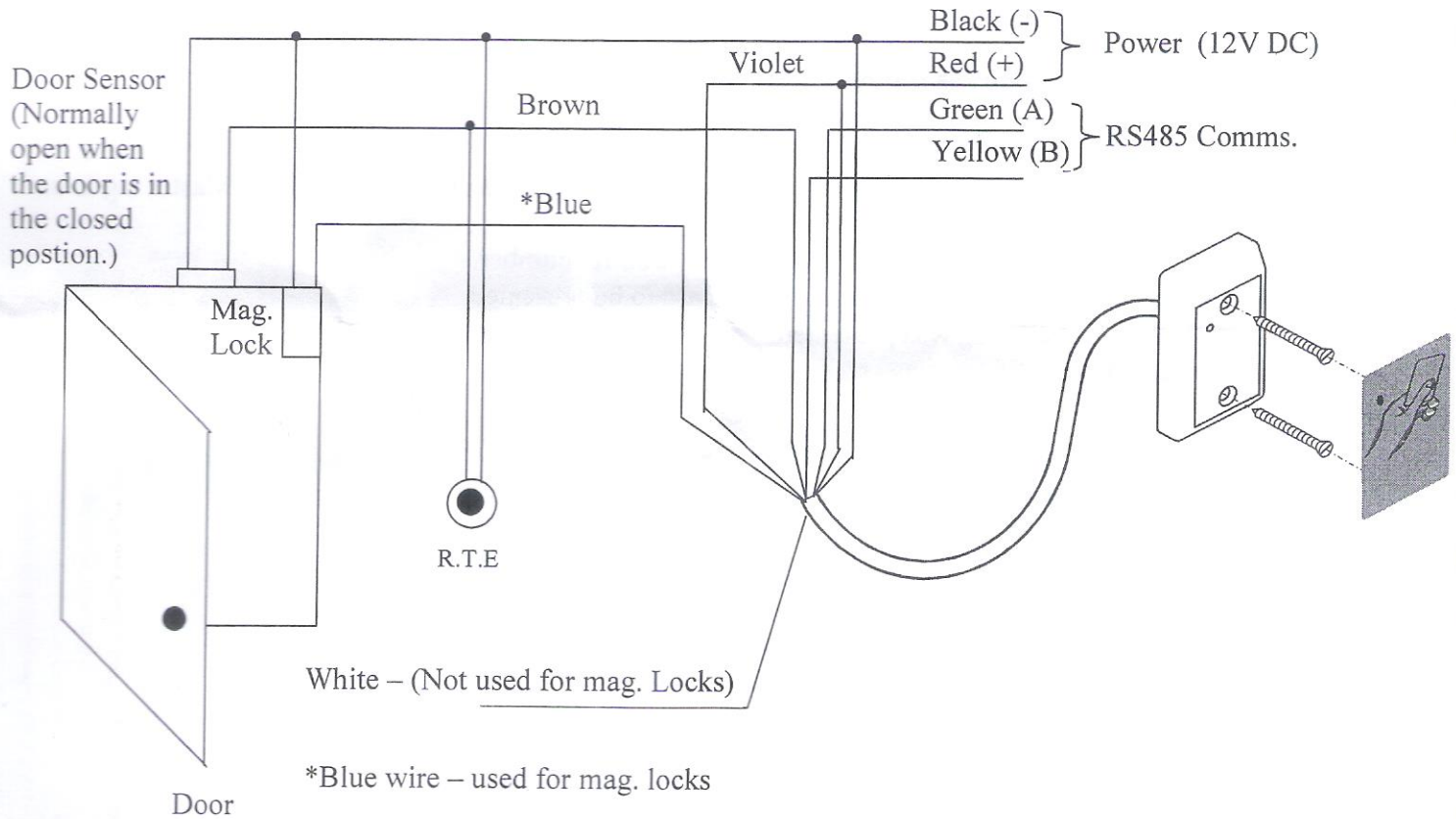


## RS485 PicoProx Proximity Reader



### INSTALLATION INSTRUCTIONS

The RS485 PicoProx proximity reader comes prewired with 2m of 8 core cable connected to it. The maximum overall RS485 cable length can be 1200 metres.

Wiring of the PicoProx proximity reader is as follows:

<b>RED</b>	-	<b>12V DC</b>	
<b>BLACK</b>	-	<b>GND</b>	
<b>BLUE</b>	-	<b>Relay (NC contact – used for failsafe locks eg. Mag locks)</b>	} Connections to door lock mechanism
<b>VIOLET</b>	-	<b>Relay (Com)</b>	
<b>WHITE</b>	-	<b>Relay (NO contact – used for fail – secure locks eg. strikes)</b>	
<b>GREEN</b>	-	<b>RS485 A (or +RS485)</b>	
<b>YELLOW</b>	-	<b>RS485 B (or – RS485)</b>	
<b>BROWN</b>	-	<b>RTE Push Button &amp; Door Sensor Input (Active Low)</b>	

Two screws and two wall plugs are supplied with the reader for mounting purposes.

The following steps should be followed:

1. Use the **reader** to mark off the holes to be drilled on the wall where the reader is to be mounted.  
(**Note: A centre hole for the cable must be drilled. The holes for the wall plugs should only be deep enough to accept the wall plugs.**)
2. Once the holes have been drilled insert wall plugs.
3. Mount the reader and fasten the screws, making sure that the cable is run correctly.
4. Place reader sticker onto the reader and align the reader sticker LED hole with the LED on the reader.

### LED Indications:

#### 1 LED Tri – colour - Indications as follows:

- **Solid red** - The unit is offline and has no ID number.
- **Alternating red/green flashing** – The unit is in programming mode and is awaiting the Master tag to be presented at the unit to receive an ID number.
- **Flashing orange** – The unit is offline but it does have an ID number.
- **Solid orange** – The unit is online and awaiting a card to be presented.
- **Flashing green** – A valid tag was presented.
- **Flashing red** – An invalid tag was presented.

### Specification:

<b>Input Power Supply</b>	:	9 – 16V DC
<b>Current</b>	:	30mA
<b>Mass</b>	:	70 grams
<b>Dimension</b>	:	39mm(W) x 75mm(L) x 15mm(D)
<b>Material</b>	:	ABS Plastic
<b>Colour</b>	:	Grey
<b>Operating Temp.</b>	:	-10°C - +60°C
<b>Storage Temp.</b>	:	-20°C - +80°C
<b>Operating Humidity</b>	:	95% RH, Non – condensing.
<b>Protection Category</b>	:	IP54 (Encapulated)
<b>Communication</b>	:	<b>RS485</b> Baud Rate – 19 200 Protocol – SensAble Sensors comms protocol Address – Set by the controller
<b>RS485 Cable</b>	:	Shielded cable with twisted pairs – A WG 18(1.02mm) Minimum
<b>Maximum distance to Controller</b>	:	1000 meters
<b>Proximity Frequency/ Coding</b>	:	125kHz/Manchester EM4002 Compatible
<b>Relay ( when fitted)</b>	:	Change – over contacts Rating – 3A @ 24V AC/DC
<b>Solid State Inputs</b>	:	1 Solid State Input Active low (100mA Max)
<b>Connections</b>	:	2 meter cable – 8 Core

Part Number: MIC0302020-02

**SENSABLE**  
SENSORS