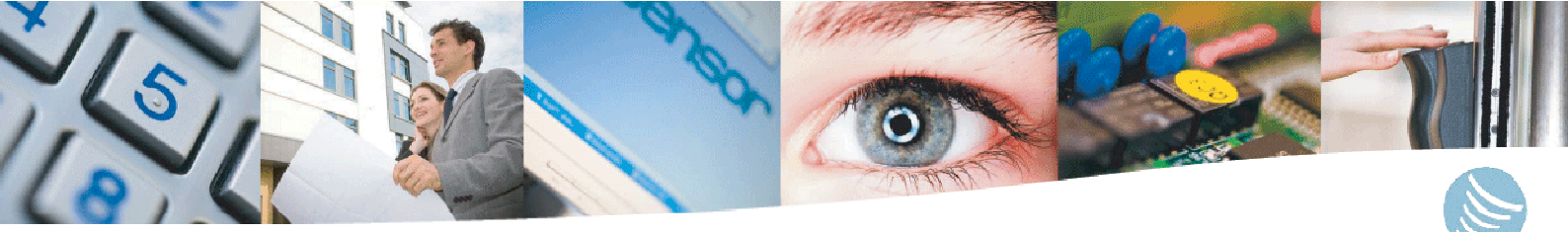


SF-MINI

Install Guide

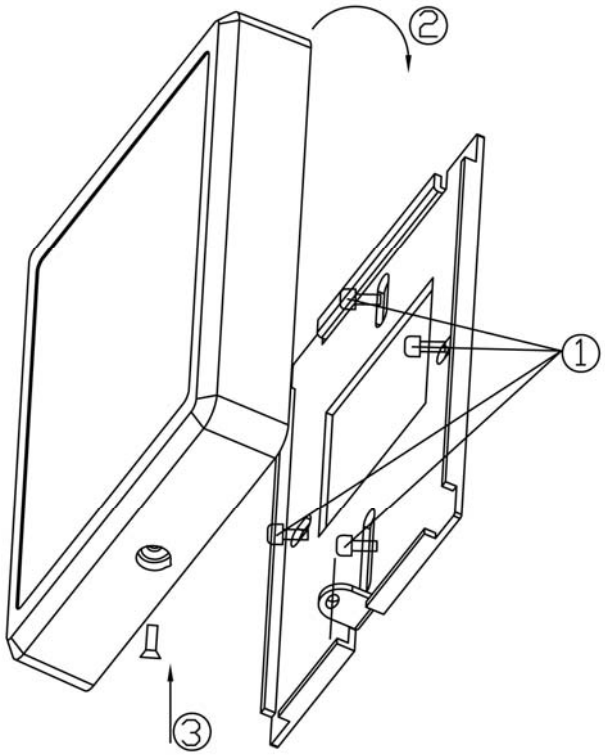
Dimensions	85mm (H) x 55mm (W) x 17mm (D)	
Weight	80g	
Read Range	50mm	
Input Current (Maximum)	150mA	
Input Voltage (at Reader end)	DC10V - 15V	
Colour	Black	
Material	PC & ABS	
LED Indicator	Red & Green	
Buzzer	Yes	
Operating Temperature	-30°C to 70°C	
Max Range to Controller	150m	
To Extend Cable Use	Belden 9421 (22AWG, non-twisted)	

Mounting

Install the metal plate on the wall with two or four screws (1)

The cover should clip onto the upper edge (2) then push in the bottom part

Tighten the Secure non-dropout screw located underneath the reader(3). This will fix the reader to the backplate



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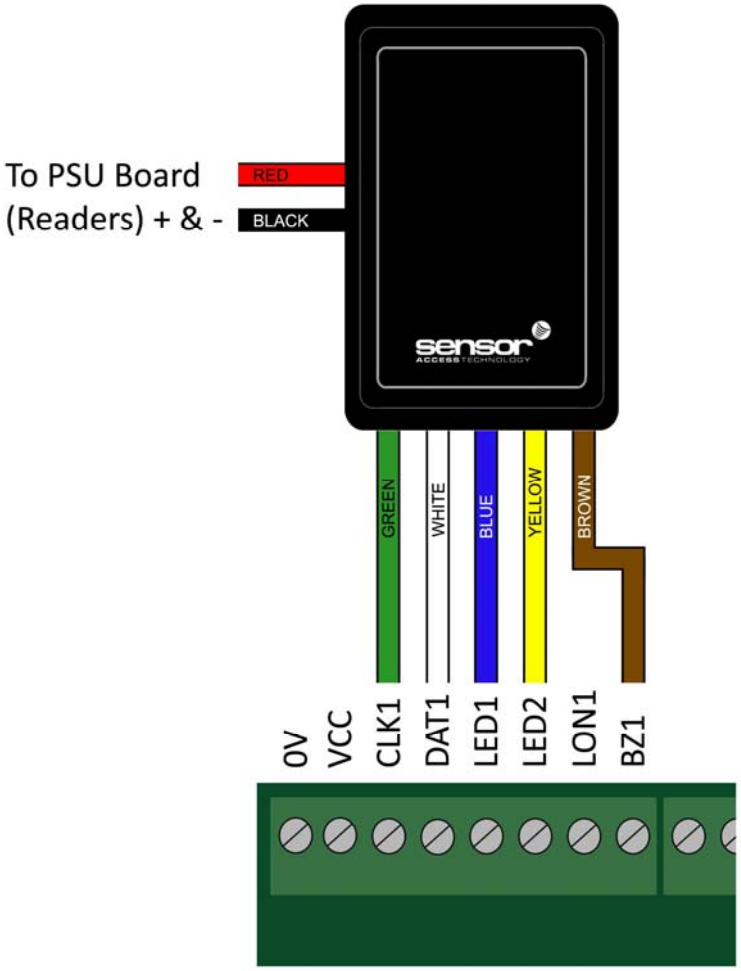
Install Guide



WIRE COLOUR	LABEL	IC500	IC1000+	IC2000/4000
Red	+12V dc	12V	12V	12V
Black	GND	0V	0V	0V
Green	Data0	CK1 / CK2	CK1 / CK2	CLK1 / CLK10 / CLK2 / CLK20
White	Data1	DT1 / DT2	DT1 / DT2	DAT1 / DAT10 / DAT2 / DAT20
Yellow	Red LED	LD2 / LD5	LD2 / LD5	LED2 / LED5
Blue	Green LED	LD1 / LD4	LD1 / LD4	LED1 / LED4
Brown	Buzzer	BZ1 / BZ2	BZ1 / BZ2	BUZ1 / BUZ10 / BUZ2 / BUZ20
Orange	Tamper	If required, connect to a spare input on controller		

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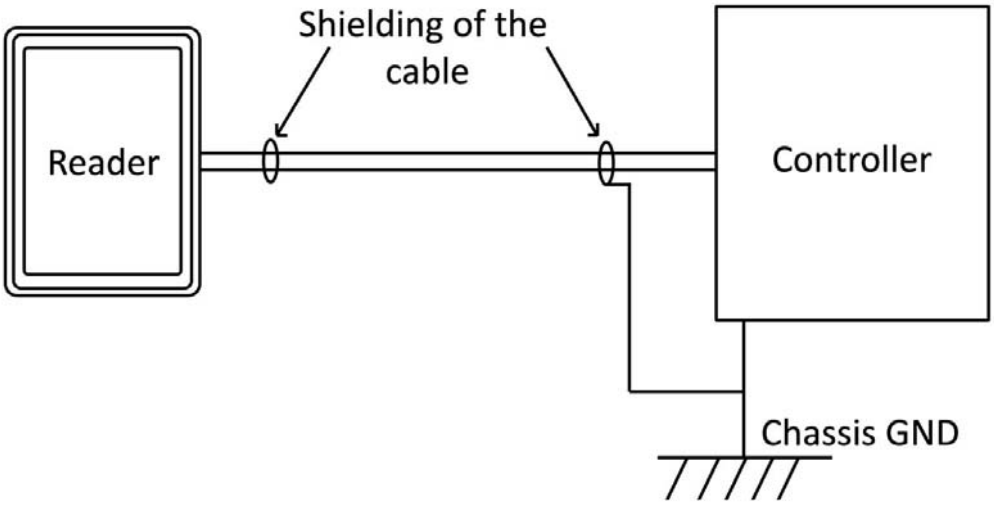
Recomendation



Troubleshooting

PROBLEM	SOLUTION
No response when powered up	• Disconnect from the power and check that the power cable is correctly connected • Check the input voltage is sufficient
Auto restart	• Check the input voltage is sufficient
Cannot read card number correctly	• Check the format setting on the controller is the same as the card format. • Check if the shield cable is correctly connected to the chassis ground at one point only
Reader beeps however no card data info	• Check if Data0 & Data1 cable are correctly connected • Check the input voltage at the card reader is correct • Check the dipswitches on the controller
Buzzer Error	• Check the buzzer cable is correctly connected
Back lit error	• Check the LED cable is correctly connected

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