

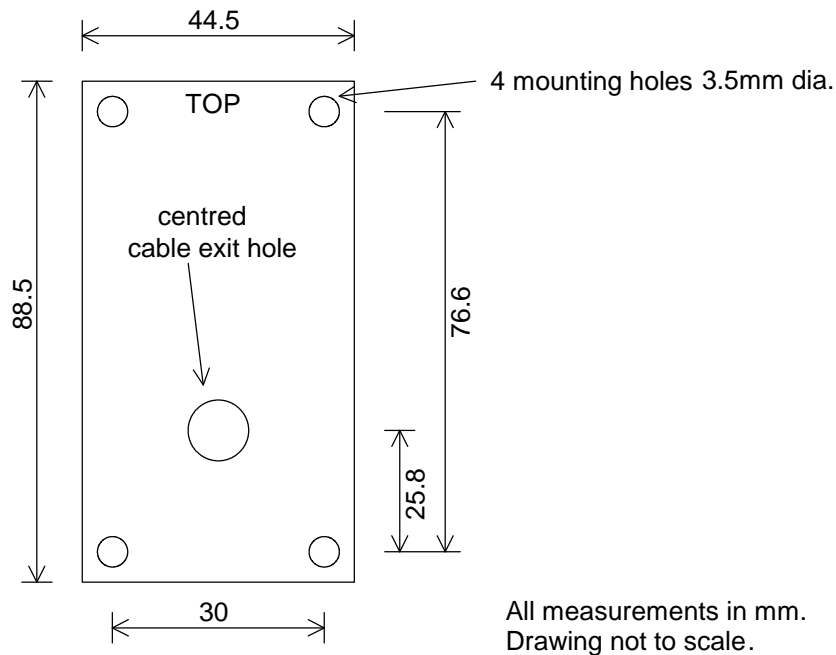
716-52 REV6 Multi Sector MIFARE® Reader/Writer

Shortform Data Sheet

Specifications

- Power requirements: 5.0 to 13.8V dc
- Current consumption: 100 mA (typical)
- RF Frequency: 13.56MHz
- Typical reading range - 20mm to 50mm, dependant upon card manufacturer
- 3 LEDs (GREEN, RED, YELLOW).
- Beeper emits a 4kHz tone
- Operating temperature range: -20°C to +60°C.
- 10 way cable: 0,9m long
- Weight: 90 grams.
- Dimensions: reader 89 x 45 x 16 mm, optional spacer plate 89 x 45 x 7 mm

Physical Dimensions and Mounting Details



If the spacer plate is used the reader cable may be brought out of one of four exit points on the spacer: top, bottom, left or right. This enables the cable to be run on the surface of the wall. If no spacer plate is used a minimum hole size of 6.5mm must be drilled in the wall at the cable exit position as shown above to allow the cable to exit perpendicular to the reader.

The optional spacer plate may also be used when mounting the reader on a metal surface to reduce the negative effects of metal on the read range.

Connections

The table below details the function of each wire:

Colour	Name	Function
ORANGE	TTL ³ RX	TTL RX comms
PURPLE	TTL ³ TX	TTL TX comms
BLUE	COMMS GND	TTL/RS232 comms ground
YELLOW	RS232 RX	RS232 RX comms
GREEN	RS232 TX	RS232 TX comms
RED	+VDC ⁴	Connect +5V +13.8V to power supply
BLACK	0V	Connect 0V to power supply

Note 3. TTL comms bypasses the RS232 level shifting and inverting IC and offers the user the ability to connect the application microprocessor directly to the Reader Writer's microprocessor.

Note 4. The Reader Writer has an internal low dropout 5V regulator. For supply voltages less than 5.5V the user must provide a regulated DC with RMS ripple and noise levels below 1mV.

RS232 Communication

There are two alternate full duplex serial communication connections to the Reader Writer, RS232 or TTL. The RS232 conforms to the EIA standard and can be connected directly to the serial COM port of a PC. The TTL connections are non-inverted 0V and 5V levels and are intended to be connected directly to the USART of the application microprocessor.

The baud rate is 19200. Data format is 8 bits, no parity, and 1 stop bit.