SE485

EN Installation Instructions
Interface

BOSCH

1.0 Introduction

The SE485 is designed as an interface between the RS-485 signal bus of the Security Escort Transponder and the Serial Bus (RS-232) of the Security Escort Central Station.
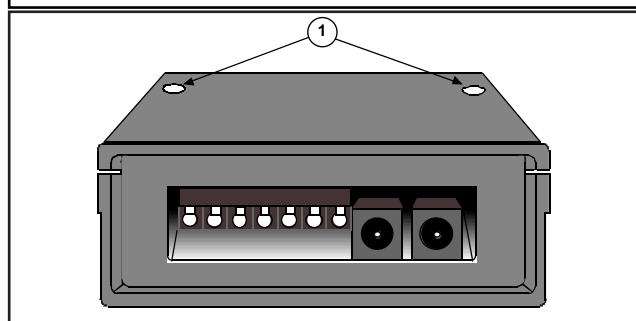
2.0 Specifications

Table 1: Specifications

Dimensions	135 mm x 85 mm x 30 mm (5.375 in. x 3.3125 in. x 1.1875 in.)
Power	Use the included 120 VAC adapter to 9 VDC, 300 mA or power from the transponder.
Recommended Cable	Two twisted pair, four conductor, 0.8 mm (22 AWG)
Compatibility	EA500B Transponder EA501B Transponder

3.0 Installation

To install the SE485:

1. Remove the cover by removing the cover screws (see *Figure 1).*

Figure 1: SE485 Enclosure

1 - Cover screws

2. Connect the wiring (see *Figure 2).*

3. After wiring the system, replace the cover and power up the unit.
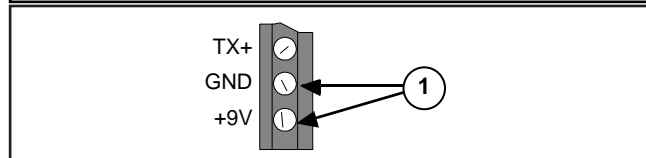
4. Wire the connectors as indicated in *Table 2.*

Table 2: Wiring Chart

SE485	Transponder
RX-	TX-
RX+	TX+
TX-	RX-
TX+	RX+

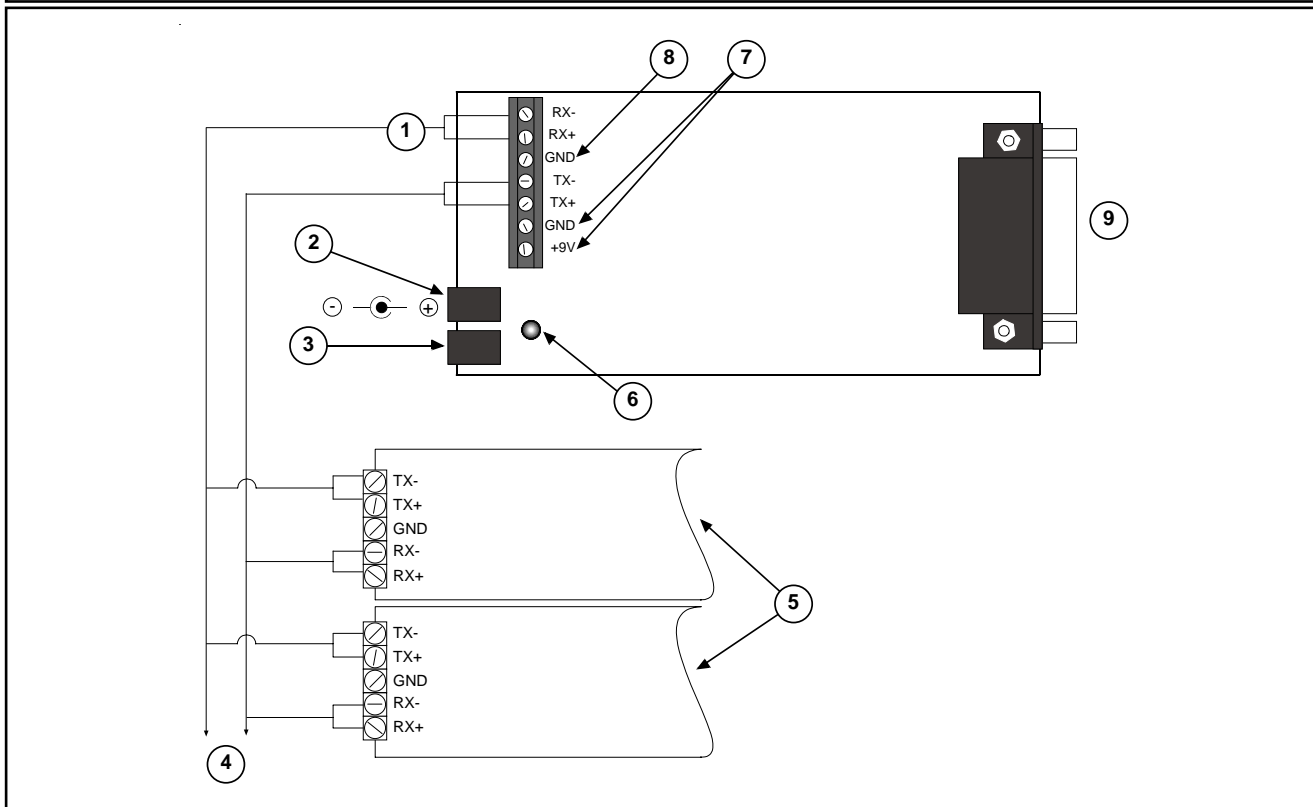## 4.0 Installation and Operation Notes

- Each transponder must have its own address.

- For the Security Escort system to maintain operation, the SE485 must be powered at all times. Use the 9 V adaptor provided plugged into an Uninterrupted Power Supply (UPS).

- The SE485 can also be powered from the transponder's 9 V output connected to the 9 VDC input wiring connectors (see *Figure 3*).

- Up to four SE485s can be included in an installation. For multiple SE485s, use the connector cable provided.

Figure 3: Transponder Power

1 - 9 VDC input from transponder

Figure 2: Wiring Diagram

1 - Twisted pair wire

2 - Power supply (31578) center positive

3 - Connector for multiple SE485s

4 - To next transponder

5 - Escort transponder

6 - Power LED

7 - Optional 9 VDC input from transponder

8 - Wiring connectors to transponder (ground not needed)

9 - To central station RS-232 port. Use 25 pin male to 9 pin female (or 25 pin male to 25 pin female) straight computer serial cable no longer than 15 m (50 feet). Do not use null modem cable.

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