



IDTECK Co., Ltd.

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Architect & Engineer Specification

RF10 Proximity Card Reader

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1 Introduction

The intent of this document is to describe the specification of RF10 Proximity Card Reader manufactured by IDTECK Co., Ltd. All the information is provided in detail for system architect and engineers designing access control system.

2 Description

The RF10 Proximity Card Reader shall provide various applications with one card solution for in and out door use even in harsh environment. The RF10 shall be successfully installed on metal door frame and mullion. Combined with Starwatch Dual or iTDC Pro software, the RF10 shall provide easy yet secure access control solution.

3 Mechanical Specification

- 3.1 The RF10 Proximity Card Reader shall measure 1.82" x 4.81" x 0.87" (46 x 122 x 23mm).
- 3.2 The RF10 shall have a dark pearl gray body
- 3.3 The RF10 shall weight 160g (Packaged weight for shipping shall be 200g)

4 Electrical Specification

- 4.1 The RF10 Proximity Card Reader shall indicate its status through red and green LED and buzzer.
- 4.2 The RF10 shall operate on 12V. Max 180mA.
- 4.3 The RF10 shall have 125KHz frequency.

5 RFID reader Specification

- 5.1 Reading Range of the RF10 shall vary depending on the types of the card that are used. The RF10 shall accept following proximity cards with stated reading range.
 - 5.1.1 Passive cards those are stated below shall operate with the RF10 and shall have declared reading range.
 - 5.1.1.1 IDC 80 card (ISO credit card size and thickness) shall have 4inch (10 Cm) reading range.
 - 5.1.1.2 IDC 170 card (clamshell card) shall have 4 inch (10 Cm) reading range.
 - 5.1.1.3 IDK 50 key tag shall have 2 inch (5 Cm) reading range.
 - 5.1.1.4 IMC 125 coin shall have 2 inch (5 Cm) reading range.
 - 5.1.2 Active cards that are stated below shall operate with the 100R and shall have declared reading range.
 - 5.1.2.1 IDA 150 active card shall have 12inch (30 cm) reading range.
 - 5.1.2.2 IDA 200 active card shall have 15inch (40 cm) reading range.
- 5.2 The RF10 shall have PSK modulation.
- 5.3 The RF10 shall have Reverse power polarity protection
- 5.4 The RF10 shall have supervisory signal optionally

6 Communication Specification

- 6.1 The RF10 shall provide 26bit Wiegand and optional RS232 and ABA Track II magnetic stripe format



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7 Environmental Specification

7.1 Operating Temperature

7.1.1 The RF10 shall operate temperature between -35 ° C ~ +65 ° C.

7.2 Operating Humidity

7.2.1 The RF10 shall operate humidity between 10% ~ 90% RH(Non-condensing)

7.3 The RF10 shall be 100% weather proof.

8 Certification and Approvals

8.1 The RF10 shall have following certification

8.1.1 FCC certification

8.1.2 UL certification

8.1.3 CE certification

8.1.4 MIC certification

Technical Support Contact Information:

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