



IDTECK Co., Ltd.

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Architect & Engineer Specification

RF30 Proximity Card Reader

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1 Introduction

The intent of this document is to describe the specification of RF30 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 RF30 Proximity Card Reader shall provide various applications with one card solution for in and out door use even in harsh environment. RF30 shall have reading range up to 12 inch (30cm) Combined with Starwatch Dual or iTDC Pro software, the RF30 shall provide easy yet secure access control solution.

3 Mechanical Specification

- 3.1 The RF30 Proximity Card Reader shall measure 4.8" x 5.7" x 0.8" (123 x 144 x 20.5mm).
- 3.2 The RF30 shall have a dark pearl gray body
- 3.3 The RF30 shall weight 370g (Packaged weight for shipping shall be 500g)

4 Electrical Specification

- 4.1 The RF30 Proximity Card Reader shall indicate its status through red and green LED and buzzer.
- 4.2 The RF30 shall operate on 17V. Max 350mA.
- 4.3 The RF30 shall have 125KHz frequency.

5 RFID reader Specification

- 5.1 Reading range of the RF30 shall vary depending on the types of the card that are used. The RF30 shall accept following proximity cards with stated reading range.
 - 5.1.1 Passive cards those are stated below shall operate with the RF30 and shall have declared reading range.
 - 5.1.1.1 IDC 80 card (ISO credit card size and thickness) shall have 12inch (30 Cm) reading range.
 - 5.1.1.2 IDC 170 card (clamshell card) shall have 12inch (30 Cm) reading range.
 - 5.1.1.3 IDK 50 key tag shall have 6 inch (15 Cm) reading range.
 - 5.1.1.4 IMC 125 coin shall have 6 inch (15 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 up to 3.3feet (1 m) reading range.
 - 5.1.2.2 IDA 200 active card shall have 4feet (1.2 m) reading range.
- 5.2 The RF30 shall have PSK modulation.
- 5.3 The RF30 shall have Reverse power polarity protection
- 5.4 The RF30 shall have supervisory signal optionally

6 Communication Specification

- 6.1 The RF30 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 RF30 shall operate temperature between -35 ° C ~ +65 ° C.

7.2 Operating Humidity

7.2.1 The RF30 shall operate humidity between 10% ~ 90% RH(Non-condensing)

7.3 The RF30 shall be 100% weather proof.

8 Certification and Approvals

8.1 The RF30 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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