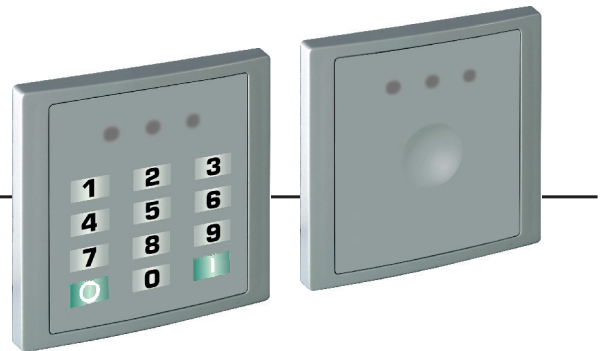# Reader series "Insertic"

**Contactless reader**
**for integration in standard switch boxes**
**for ACS, IDS and time management systems**



The readers of the series "Insertic" are suitable for installation in standard f.m. switch boxes. Due to their flat design, the readers only extend 11 mm beyond the surface of the wall. In combination with discreet colors, the readers can be integrated seamlessly in both private and industrial environments.

The readers are available with various different interfaces for a broad spectrum of applications.

## Features

- **Reader technology:**
  **proX1/IK2, proX2/IK3** (without changeover code)
  **mifare, LEGIC prime and LEGIC advant**

- **proX readers with Clock/Data interface:**
  **- switchable on Hitag 1 or 2**
  **- switchable on Wiegand**

- **Fits in most flush-mounted or hollow-wall device boxes with a screw distance of 60 mm**

- **With and without keypad**

- **Three partly freely programmable LEDs**

- **Integrated buzzer**

- **RS-485 or clock/data interface**

- **Module bus protocol on RS-485 interface**

- **Large input voltage range, 8 V - 30 V DC**

- **Tamper detection**

- **For indoor and outdoor usage**

- **Connection using screw terminals with lift system**

- **Compact design, simple assembly**

LED indicator

The 3 LEDs (green, yellow, red) on the reader are generally controlled by the connected device. The function is fixed or can be programmed depending on the door controller used.

With readers with Clock/Data interface, the yellow LED serves as operational status indicator.
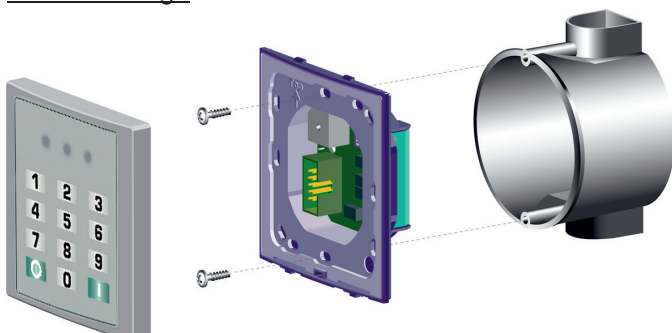
The light symbols and an integrated buzzer issue clear signals during operation.

Interfaces

The readers of the series "Insertic" can be integrated in Honeywell systems via standard interfaces **RS-485 or Clock/Data**:

- Access control (ACS line)

- Intrusion detection (IK3 evaluation unit and Door controller module for MB)

- Time management systems (option access control and ACS-2 plus controller)

Modular design



Application

The readers are intended for both indoor and outdoor applications.

## Technical specifications

| | |
|---|---|
| **Rated operating voltage** | 12 V DC |
| **Operating voltage range** | 8 V to 30 V DC |
| **Power consumption** | max. 2.5 W |
| **Reading distance** [1] | typically 4 cm with ID cards<br>typically 2 cm with key fob |
| **Interfaces:** | |
| - RS-485 | RS-485 with module bus protocol (ACS-8, IK3) |
| - Clock/Data | TTL level, 4 bit code according to DIN 9785, resting level high |
| - Wiegand | HID 24 Bit Wiegand format |
| **Protection class according to EN 60529** | max. IP 54 when mounted<br>depends on sealing between unit and mounting wall |
| **Operating temperature range** | -25 °C to +60 °C |
| **Storage temperature range** | -30 °C to +70 °C |
| **Dimensions:** | |
| - Visible housing (W x H x D) | 81 x 81 x 11 mm |
| - Housing, fm part (∅ x D) | 56 x 24 mm |
| **Colour** | light gray (similar to RAL 7047) |

[1] The denoted reading distance can only be garanteed by using data carriers provided by our company.

## Ordering information

| Item No. | Description |
|---|---|
| **027666.10** | **proX reader without keypad "Insertic", Clock/Data interface or Wiegand, switchable** |
| **027667.10** | **proX reader with keypad "Insertic", Clock/Data interface or Wiegand, switchable** |
| **027668.10** | **proX reader without keypad "Insertic", RS-485 interface** |
| **027669.10** | **proX reader with keypad "Insertic", RS-485 interface** |
| **027670** | **mifare reader without keypad "Insertic", Clock/Data interface** |
| **027671** | **mifare reader with keypad "Insertic", Clock/Data interface** |
| **027672** | **mifare reader without keypad "Insertic", RS-485 interface** |
| **027673** | **mifare reader with keypad "Insertic", RS-485 interface** |
| **027674** | **LEGIC reader without keypad "Insertic", Clock/Data interface** |
| **027674.10** | **LEGIC advant reader without keypad "Insertic", Clock/Data interface** |
| **027675** | **LEGIC reader with keypad "Insertic", Clock/Data interface** |
| **027675.10** | **LEGICadvant reader with keypad "Insertic", Clock/Data interface** |
| **027676** | **LEGIC reader without keypad "Insertic", RS-485 interface** |
| **027676.10** | **LEGIC advant reader without keypad "Insertic", RS-485 interface** |
| **027677** | **LEGIC reader with keypad "Insertic", RS-485 interface** |
| **027677.10** | **LEGIC advant reader with keypad "Insertic", RS-485 interface** |

**Honeywell**