# KANTECH

*ACCESS CONTROL AND INTEGRATED SYSTEMS*

**DSC**

## ioProx
### PROXIMITY READERS

## The IoProx Readers



### Multi-Function Proximity Readers

With 4 new **IoProx** readers to choose from, you will find one that's right for your application! Their attractive, compact and weatherized design makes them suitable for installation in various indoor and outdoor environments.

## Features

- **Up to 1000' (300m) UNSHIELDED Cable**
- **Up to 6'' (15cm) Read Range**
- **Indoor/Outdoor**
- **Bicolor LED**
- **Piezo**
- **Optional Command Buttons**
- **Optional Tamper Switch**

The **IoProx** reader electronics are vandal and weather resistant, and are encapsulated in epoxy. All readers have an integrated piezo buzzer and bicolor LED indicating system/reader status. Optional tamper switch and command button modules are available.

### UNSHIELDED Cable

The **IoProx** readers can be installed using #22AWG UNSHIELDED cable to a distance of up to 1000' (300m) from the controller. Using this type of cable significantly reduces installation costs.

### Integrated Command Buttons (P200XSF and P400XSF)

An optional integrated command button module can be added to the P200XSF and P400XSF models. The two buttons are form "C" contacts that can be used to perform different functions such as arming/disarming an alarm panel, serving as a doorbell when connected to a buzzer, etc.

### Voltage Requirements

The readers accept a voltage of 5 to 14 VDC and can be used with virtually any controller on the market. This will allow a system to be upgraded simply by changing the readers and cards, without needing to recable.

### XSF Security

XSF format readers are only compatible with Kantech software products. The readers recognize over 137 billion unique codes. Using Kantech's XSF cards (eXtended Secure Format) provides increased security and absolute guarantee against card duplication.

### Easy Installation

The **IoProx** readers' small size provides flexibility for mounting: they can be installed on walls, door mullions, or single and double gang boxes.

### Read Range

The read range increases with reader size. Depending on the model selected and the environmental conditions, the read range varies from up to 4" (P100XSF) to up to 6" (P400XSF).
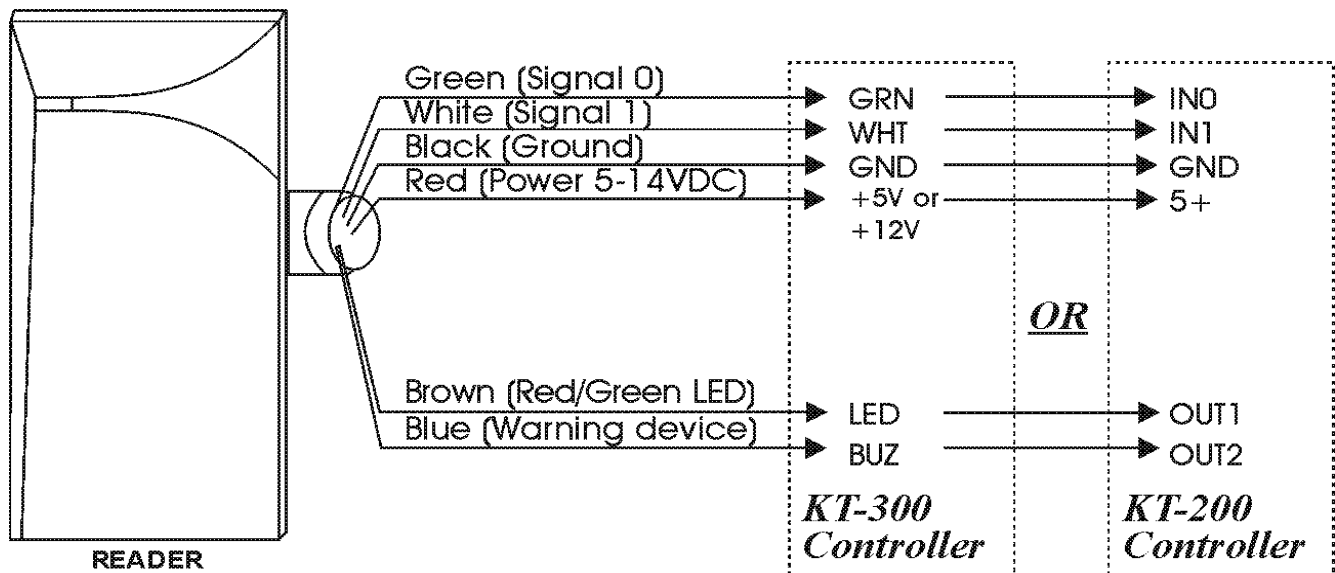
**DSC** GROUP OF COMPANIES

# Technical Specifications

| | P100XSF<br>Mini | P200XSF<br>Mullion | P300XSF<br>Single Gang | P400XSF<br>Double Gang |
|---|---|---|---|---|
| Typical read range[2] | Up to 10cm (4") | Up to 12.5cm (5") | Up to 14cm (5.5") | Up to 15cm (6") |
| Input voltage | 5 to 14 VDC | 5 to 14 VDC | 5 to 14 VDC | 5 to 14 VDC |
| Current DC maximum | 85 mA | 85 mA | 85 mA | 85 mA |
| Dimensions (H•W•D) mm | 70 x 44 x 17.8 | 114.5 x 44 x 17.8 | 114.5 x 70 x 17.8 | 114.5 x 114.5 x 17.8 |
| Dimensions (H•W•D) in. | 2.75 x 1.75 x 0.7 | 4.50 x 1.75 x 0.7 | 4.50 x 2.75 x 0.7 | 4.50 x 4.50 x 0.7 |
| Weight | 39g (1.37oz) | 52g (1.83oz) | 83g (2.92oz) | 112g (3.94oz) |
| Color | Black | Black | Black | Black |
| Transmit frequency | 125 kHz | 125 kHz | 125 kHz | 125 kHz |
| LED indicator | Bicolor standard (red, green) | Bicolor standard (red, green) | Bicolor standard (red, green) | Bicolor standard (red, green) |
| Piezo buzzer | Integrated | Integrated | Integrated | Integrated |
| Operating temperatures | -35ºC to 65ºC (-30ºF to 150ºF) | -35ºC to 65ºC (-30ºF to 150ºF) | -35ºC to 65ºC (-30ºF to 150ºF) | -35ºC to 65ºC (-30ºF to 150ºF) |
| Format | XSF[1] for Kantech software only | XSF[1] for Kantech software only | XSF[1] for Kantech software only | XSF[1] for Kantech software only |
| **Maximum distance from controller:** | | | | |
| Reader Power 12V | 300m (1000') | 300m (1000') | 300m (1000') | 300m (1000') |
| Reader Power 5V | 150m (500') | 150m (500') | 150m (500') | 150m (500') |
| Cable type | 3 twisted pairs, solid core #22AWG, unshielded, Belden ref #8742 | 3 twisted pairs, solid core #22AWG, unshielded, Belden ref #8742 | 3 twisted pairs, solid core #22AWG, unshielded, Belden ref #8742 | 3 twisted pairs, solid core #22AWG, unshielded, Belden ref #8742 |
| Certifications | UL294, CE, FCC | UL294, CE, FCC | UL294, CE, FCC | UL294, CE, FCC |
| Command Buttons (Optional) | N/A | P-BUTN/200 | N/A | P-BUTN/400 |
| Tamper Switch (Optional) | N/A | P-TAMP | P-TAMP | P-TAMP |

**Compatible High Security Dual Encoded Proximity Cards for all readers** : P10SHL (Standard card), P20DYE (Dye-Sub card), P30DMG (Dye-Sub card with blank mag-stripe) and P40KEY (Keytag).

**[1] XSF** : eXtended Secure Format    **[2]** Reduced read range with keytags and Dye-Sub cards

# Wiring Diagram



**Note** :
"UL has only verified compatibility with specific UL listed Access Control Units. Please consult the Access Control Units Installation Instructions for more information.