

# Smart Prox DCX

*Fixed Mount or Portable Data Collection Swipe Reader*



The Smart Prox DCX is a data collection reader supporting any combination of proximity, Iclass, barcode, and magstripe reading. Available in fixed mount or portable versions, both versions are capable of storing over 100,000 transactions. The portable version is especially convenient for collecting attendance at training classes. The fixed mount version can be wall mounted for time and attendance, or general data collection applications. Fixed Mount versions are available with Tcp/ip and POE.

## Features & Options

- Proximity (HID, Farpointe, Iclass, PIV-II, Mifare, Indala)
- Character masking (insertion & deletion)
- 1,2, or 3 Magnetic Stripe Tracks
- Infrared or visible optics
- 5V, 12V, or 24V operation (fixed mount)
- 9V battery operation (portable)
- Networking
- Date and time stamping
- Good read beep
- Compatible commands with DC series
- Power over ethernet
- Weatherproofing
- Reads Kronos & CAC cards
- Portable version available

## Interfaces

- Rs232
- TCP / IP
- Rs422
- USB



## Specifications

Reading Direction:	Bi-directional
Symbologies:	Code 39, I 2 of 5, 2 of 5, IND 2 of 5, Code 128, Codabar, EAN13, UPCA
Resolution:	5 mil
Magnetic Stripe	Tracks 1,2, or 3 (high or low density, high or low co
RF	HID, Farpointe (pyramid), Iclass, Mifare, PIV-II, HID Long, Indala
Interfaces:	Rs232, Rs422/485, TCP / IP, USB
Good Read Beep:	Programmable
Slot Width:	0.050" (1.27mm)
Power Consumption <sup>1</sup> :	5V 150mA typical 250 max / 12V 90mA typical 140 max / 24V 45mA typical 80 max / POE 90mA
Material:	Black polycarbonate / Noryl (chemical resistant case) (optional)
Dimensions:	4.6" L x 2.4" W x 1.4" H (11.68cm L x 6.10cm W x 3.56cm H)
Weight	7oz (198.5g)
Read Height:	.4" standard (1.02cm) / .465 (1.19cm) (optional)
Indicators	2 programmable LEDs
Light Source:	630nm visible / 940nm infrared
Temperature	-40°C to +85°C
Standard Wiring (Fixed):	3ft (91.5cm) cable with DB9 female (RS232), flying leads (RS422) or RJ45 (TCP / IP)
Standard Wiring (Port.):	3ft cable with jack
Memory:	4mb

<sup>1</sup>5V DC readers have a voltage tolerance of +/-5%.  
 12V DC readers may be operated from 8VDC–15VDC.  
 24V DC readers may be operated from 15V DC–30V DC.

## Wiring

Wiring Connections for various Interfaces.

### Rs232 Interface

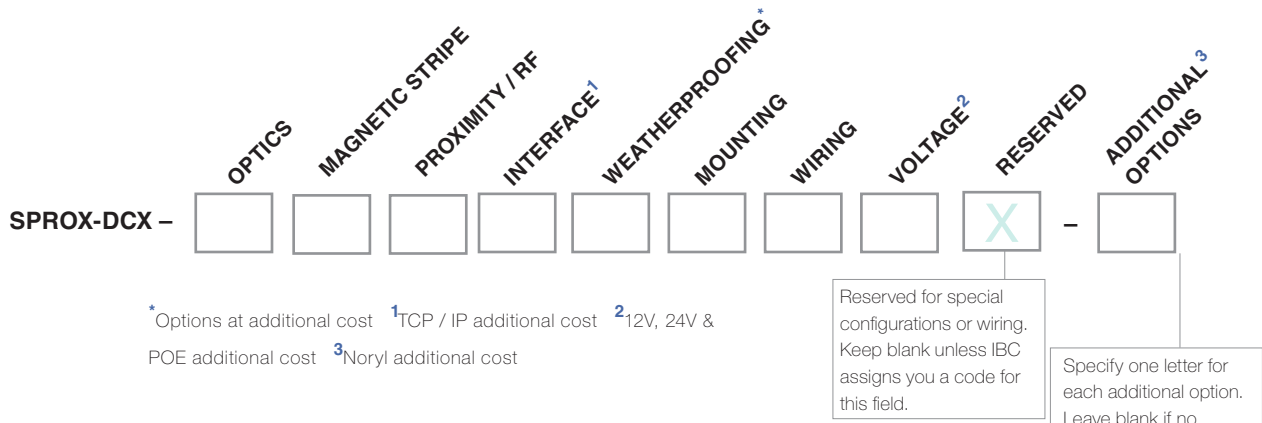
Red +VDC  
 Blue GND  
 Green Reader Transmit  
 Yellow Reader Receive

### Tcp

RJ45

### Rs422 Interface

Red +VDC  
 Blue GND  
 Green Reader Transmit +  
 White Reader Transmit -  
 Yellow Reader Receive +  
 Orange Reader Receive -



\*Options at additional cost <sup>1</sup>TCP / IP additional cost <sup>2</sup>12V, 24V & POE additional cost <sup>3</sup>Noryl additional cost

### BARCODE OPTICS

- Visible - V
- Infrared - I

### MAGNETIC STRIPE

- None - 0
- Tracks 1&2 - 1
- Track2 - 2
- Tracks 2&3 - 3
- Tracks 1,2, &3 - 4

### PROXIMITY

- HID & Farpointe - H
- Iclass - I
- PIV-II - P
- Mifare S/N - M
- Indala - D

### INTERFACE

- Rs232 - S<sup>4</sup>
- Rs422 / 485 - 2<sup>4,8</sup>
- TCP / IP - C<sup>8</sup>
- USB - U

### WEATHERPROOFING<sup>5</sup>

- No weatherproofing - 0
- Weatherproofing - W<sup>5</sup>

### MOUNTING

- #6 - 6
- 3mm - M
- Portable units - B<sup>6</sup>

### WIRING - FIXED MOUNT

- Rear - R
- Side - S

### WIRING - PORTABLE

- Internal battery (portable) - I
- Side internal jacks (portable) - J
- Internal battery / External AC - A

### VOLTAGE - FIXED MOUNT

- 5V DC - 5
- 12V DC - 2
- 24V DC - 4
- POE - P

### VOLTAGE - PORTABLE

- PORTABLE - B

### ADDITIONAL OPTIONS

- Noryl (chemical resistant case) - N<sup>7</sup>
- 8 character Alpha Display - D
- 0.465 read height for barcode (0.4 standard) - 4

<sup>4</sup>Serial units may be reprogrammed for network / protocol mode.

<sup>5</sup>Weatherproofing not available with portable readers..

<sup>6</sup>Portable units do not have mounting inserts. When ordering portable units, always specify a B for the mounting.

<sup>7</sup>Only available with fixed mount units.

<sup>8</sup>Not available in portable versions.

## Examples

Examples of ordering codes for Smart Prox DCX in popular interfaces.

### Rs232 - Iclass Only

SPROX-DCX-00IS06R2

Smart Prox DCX with:

- No barcode - 0
- No magstripe - 0
- Iclass - I
- Rs232 - S
- No Weatherproofing - 0
- #6 Mounting - 6
- Rear wire exit - R
- 12V DC supply - 2

### TCP / IP, Prox + Barcode

SPROX-DCX-I0HCW6R2

Smart Prox DCX with:

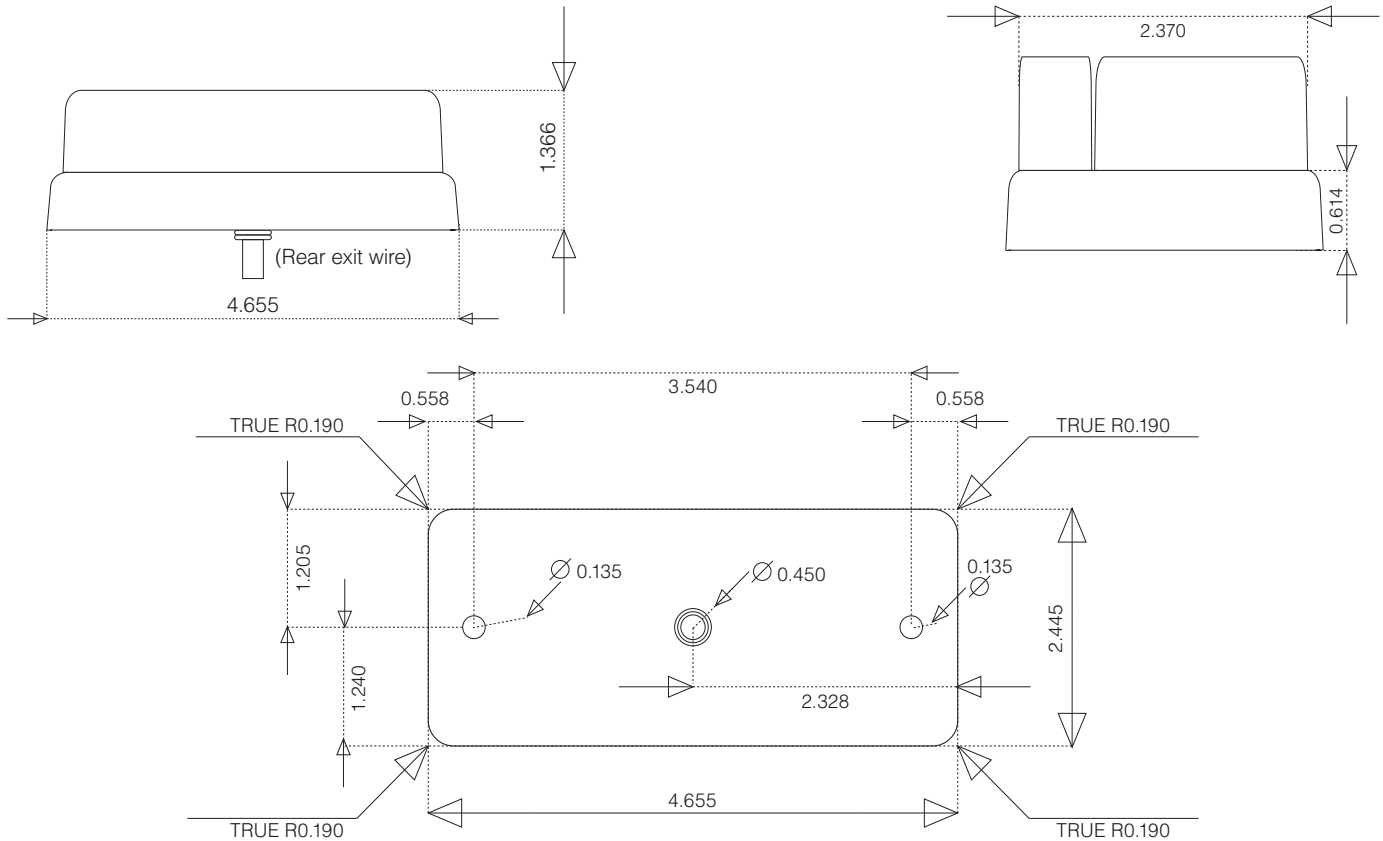
- Infrared Barcode - I
- No magstripe - 0
- Proximity - H
- TCP / IP Interface - C
- Weatherproofing - W
- #6 Mounting - 6
- Rear wire exit - R
- 12V DC supply - 2

### Rs232 Portable, Prox

SPROX-DCX-00HS0BI

Smart Prox DCX with:

- No barcode - 0
- No magstripe 0
- Proximity - H
- Rs232 - S
- No weatherproofing - 0
- Portable ( No Mounting) - B
- Internal battery - I



## Notes for Ordering Smart Prox DCX

### POWER

DCX series readers are powered with 5VDC. 12VDC and 24VDC are optional. Readers can be ordered with a side wire exit or rear wire exit. Power pigtailed and an AC adaptor can be provided for all 12V and 24V readers that are ordered with flying leads. Custom wiring is available for most configurations.

### WIRING

Standard wiring for 5V RS232 and all RS422 readers is a 3' cable with flying leads. 5V RS232 readers can be ordered with a DB9 connector and power wired to one of the pins. 12V and 24V RS232 readers contain a 3' cable with a DB9 female connector, and a power pigtail for connection to an AC adaptor; which is included. Standard wiring for TCP readers is a 5' cable with a RJ45 jack and a RJ45 coupler. Standard wiring for USB readers is a 6' cable with a USB type A plug for direct connection to a PC.

### PORTABLE

Portable DCX readers can be ordered with a DC power jack on the side, an internal 9-volt battery housing, or both. When ordered with a DC power jack, you can connect an AC adaptor for power, or connect a 9 volt battery using a short adapter cable. The AC adaptor and cable are provided. If ordered with the internal 9 volt battery housing, the reader is powered by an internal replaceable 9-volt battery. Readers may be ordered with both options, allowing use with either the internal battery, or AC adaptor. All portable versions contain a jack for serial communications and a serial cable is provided.

For custom wiring or firmware contact IBC.