Smart Prox DC

The world's first portable handheld proximity reader

The Smart Prox DC is a proximity data collection reader with optional barcode and magnetic stripe reading. The portable version is especially convenient for collecting attendance at training classes. The fixed mount version can be wall mounted for time and attendance applications, and is available with POE.

Features & Options

- Programmable LEDs
- Character masking (insertion & deletion)
- Tracks 1, 2 or 3
- Infrared or visible optics
- 5V, 12V, or 24V operation
- Networking
- Time display
- Scheduling
- Good read beep
- Internal Relay

- Power over ethernet
- Weatherproofing
- Reads Kronos & CAC cards
- Portable version available

Interfaces

- Rs232
- TCP / IP
- Rs422
- USB

ibc ®
International Bar Code

Specifications

Magnetic Stripe:	Tracks 1, 2 or 3 (high or low density / high or low coercivity)
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
Interfaces:	Rs232, Rs422/485, TCP / IP, USB
Good Read Beep:	Programmable
Slot Width:	0.050" (1.27mm)
Power Consumption[1]:	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) / 3ft cable for relay
Standard Wiring (Port.):	3ft cable with jack
Memory:	128K standard / 512K (optional)
Battery Life (Port.):	5 hours
External Prox. Interface:	Wiegand / ABA
Internal Prox. Capability:	Pyramid / HID

[1]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.

[2]POE readers can also be ordered with a 12V switched relay 500mA directly connected to POE (non-Isolated form C)
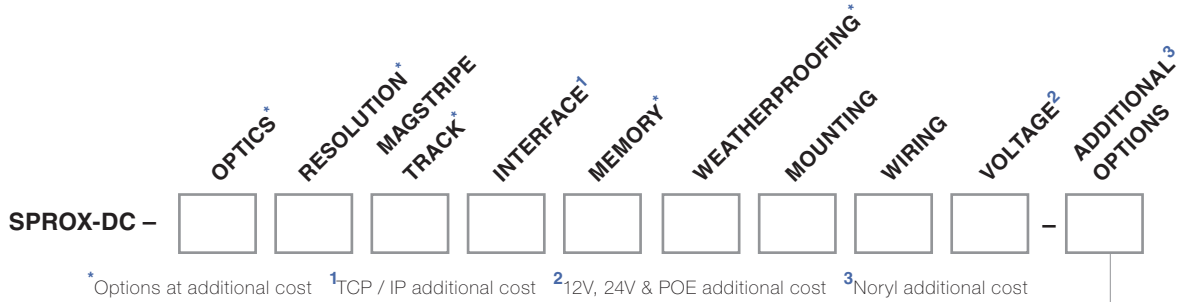
Wiring

Wiring Connections for various Interfaces.

Rs232 Interface

Red	+VDC
Blue	GND
Green	Reader Transmit
Yellow	Reader Receive

Rs422 Interface

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

How to Order

Order Smart Prox DC with a code to indicate options required.

SPROX-DC – ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ – ☐

OPTICS* | RESOLUTION* | MAGSTRIPE TRACK* | INTERFACE[1] | MEMORY* | WEATHERPROOFING* | MOUNTING | WIRING | VOLTAGE[2] | ADDITIONAL[3] OPTIONS

*Options at additional cost   [1]TCP / IP additional cost   [2]12V, 24V & POE additional cost   [3]Noryl additional cost

OPTICS[4]
Visible – V
Infrared – I
None – 0

RESOLUTION[4]
High – H
None – 0

MAGSTRIPE TRACK[4]
Track 2 – 2
Tracks 1 & 2 – 1
Tracks 2 & 3 – 3
None – 0

INTERFACE
Rs232 – S[5]
Rs422 / 485 – 2[5]
TCP / IP – C

MEMORY
128K – 1
512K – 5

WEATHERPROOFING
No weatherproofing – 0
Weatherproofing – W

MOUNTING
#6 – 6
3mm – M
Portable units – 6[6]

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
LEAVE BLANK

ADDITIONAL OPTIONS
Noryl (chemical resistant case) – N[7]

Specify one letter for each additional option. Leave blank if no additional options are desired.

[4]Barcode and magstripe options not available with portable units. See the Smart Prox DCX Series for this combination.

[5]Serial units may be reprogrammed for network / protocol mode.

[6]Portable units do not have mounting inserts. When ordering portable units, always specify a #6 for the mounting.

[7]Only available with fixed mount units.

Examples

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

Rs232

SPROX-DC–IH2S1W6R2

Smart Prox DC with:

Infrared – I

Resolution – H

Track 2 – 2

Rs232 – S

128K Memory – 1

Weatherproofing – W

#6 Mounting – 6

Rear wire exit – R

12V DC supply – 2
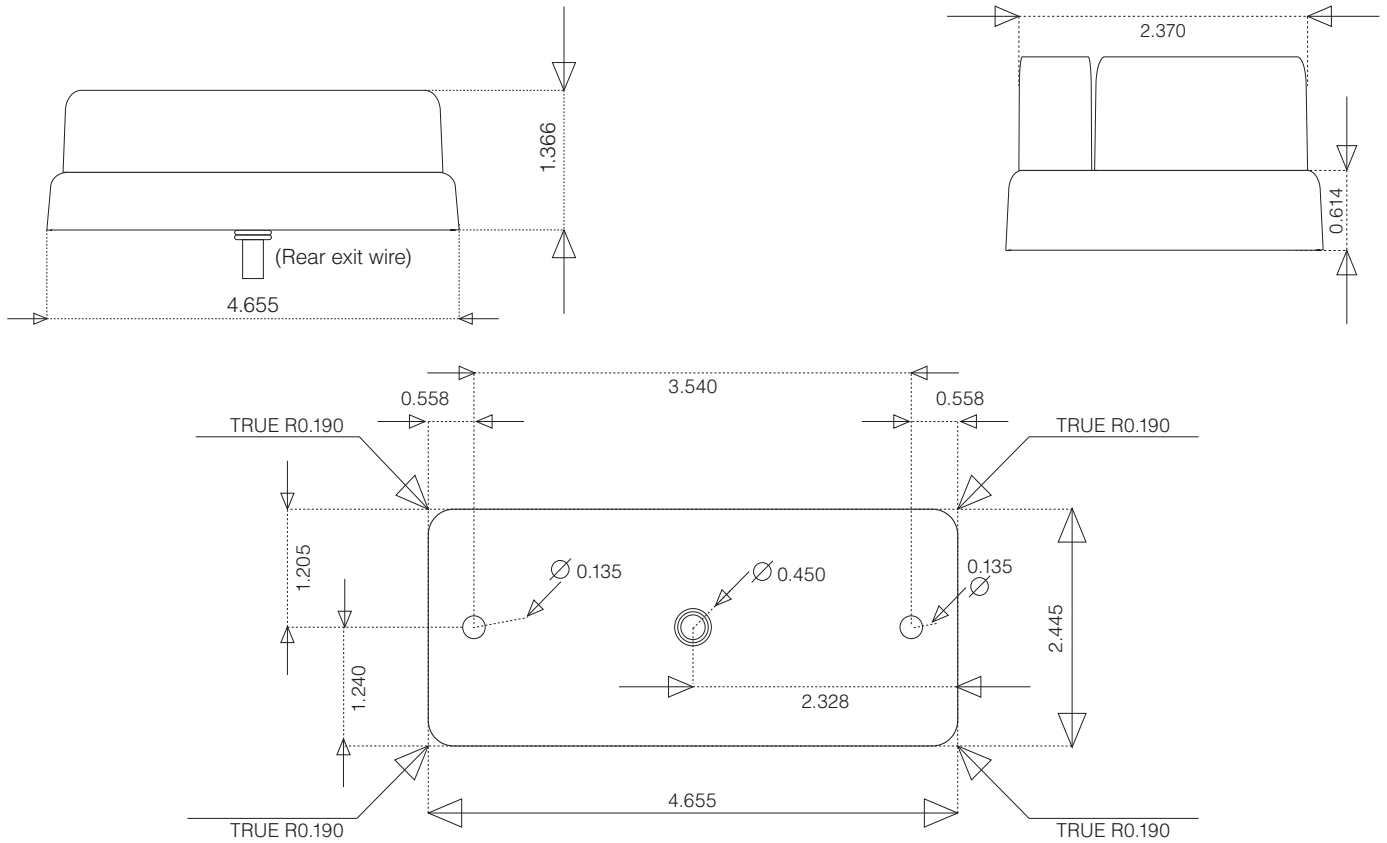
TCP / IP

SPROX-DC–IH2C5W6RP

Smart Prox DC with:

Infrared – I

Resolution – H

Track 2 – 2

TCP / IP Interface – C

512K Memory – 5

Weatherproofing – W

#6 Mounting – 6

Rear wire exit – R

POE – P

Rs232 Portable

SPROX-DC–000S106I

Smart Prox DC with:

Infrared – 0

Resolution – 0

Track 1 – 0

Rs232 – S

128K Memory – 1

No weatherproofing – 0

#6 Mounting – 6

Internal battery – I

Dimensional Diagrams

1.366

(Rear exit wire)

4.655

2.370

0.614

0.558   3.540   0.558

TRUE R0.190   TRUE R0.190

1.205

1.240

Ø 0.135   Ø 0.450   0.135   Ø

2.445

2.328

4.655

TRUE R0.190   TRUE R0.190

Notes for Ordering Smart Prox DC

POWER

DC 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 pigtails 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 DC 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.