Smart Prox STAx

For stand alone Access Control and Time and Attendance

The Smart Prox STAx is a stand alone proximity reader with internal memory, timeclock, and audit trail. The reader contains an internal relay which is used for door control. Access is controlled by validation of badge numbers stored in the internal memory of the reader. Valid numbers can be downloaded into the reader from a PC or scanned into the reader by hand. Optional barcode and magstgripe reading.

Features & Options

- Programmable LEDs
- Character masking (insertion & deletion)
- Infrared or visible optics (barcode)
- 5V, 12V, or 24V operation
- Scheduling
- Good read beep
- Internal Relay
- Audit trail
- Power over ethernet
- 8 character display
- Weatherproofing
- Reads Kronos & CAC cards
- 125K Prox and/or 13.5Mhz Iclass, Mifare

Interfaces

- Rs232
- TCP / IP
- Rs422
- USB

ibc
International Bar Code

Specifications

Barcode Scanning Speed:	3"-30" per second (7.62cm–76.2cm/sec)
Reading Direction:	Bidirectional
Symbologies:	Code 39, I 2 of 5, 2 of 5, IND 2 of 5, Code 128, Codabar, EAN13, UPCA
Interfaces:	Rs232, Rs422/485, TCP / IP, USB
Magnetic Stripe:	Tracks 1, 2 or 3 (high or low density, high or low convercity)
Prox / RF:	IBC, HID, Farpointe, Awid, EM, Casi, Indala, Iclass, Mifare, PIV-II
Resolution:	5 mil
Good Read Beep:	Programmable
Slot Width:	0.0650" (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
Relay[2]	500 MA, 35V DC / 1 common lead / 1 lead normally closed / 1 lead normally open
Light Source:	630nm visible / 940nm infrared
Temperature	-40°C to +85°C
Standard Wiring:	3ft (91.5cm) cable with DB9 female (RS232), flying leads (RS422) or RJ45 (TCP / IP) / 3ft cable for relay
Memory:	65000 users max
Display:	8 character alpha display (optional)

[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.

Wiring

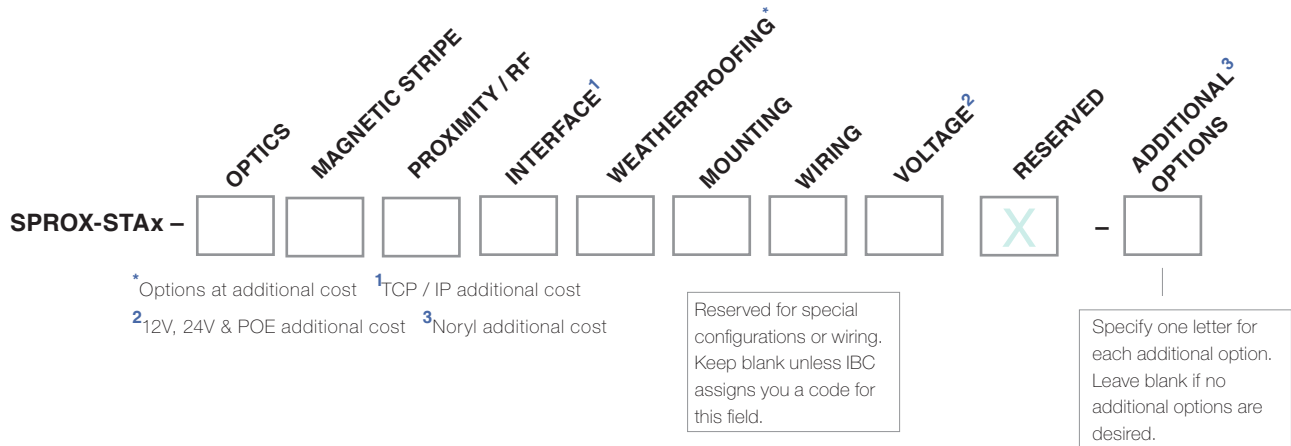Wiring Connections for various Interfaces.

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 -

Relay Wiring

Yellow	Normally Closed
Green	Normally Open
Red	Common

How to Order

SPROX-STAx –

| OPTICS | MAGNETIC STRIPE | PROXIMITY / RF | INTERFACE[1] | WEATHERPROOFING[*] | MOUNTING | WIRING | VOLTAGE[2] | RESERVED | ADDITIONAL[3] OPTIONS |

X –

[*] Options at additional cost   [1] TCP / IP additional cost

[2] 12V, 24V & POE additional cost   [3] Noryl additional cost

Reserved for special configurations or wiring. Keep blank unless IBC assigns you a code for this field.

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

OPTICS
Visible – V
Infrared – I

MAGNETIC STRIPE
No Track – 0
Tracks 1 & 2 – 1
Track 2 – 2

PROXIMITY
IBC, HID, Farpointe, Awid, Casi, EM – H
I-Class – I
Iclass & Hid Prox – B
Mifare – M

INTERFACE
Rs232 – S
TCP / IP – C

MOUNTING
#6 – 6
3mm - M

WEATHERPROOFING
No weatherproofing – 0
Weatherproofing – W

WIRING
Rear – R
Side – S

VOLTAGE
5V DC – 5
12V DC – 2
24V DC – 4
POE – P

ADDITIONAL OPTIONS
Noryl (chemical resistant case) – N
0.465 read height for barcode (0.400=standard) – 4
8 character display - D

Examples

Rs232 with prox/barcode

Sprox-STAx–I0HSW6R2

Smart Slot STAx with:

Infrared Optics – I

No magstripe - 0

Ibc,Hid,Em, Awid, Casi prox - H

Rs232 – S

Weatherproofing – W

#6 Mounting – 6

Rear wire exit – R

12V DC supply – 2

TCP / IP with Prox

Sslot-STAx–00HCW6S2

Smart Slot STAx with:
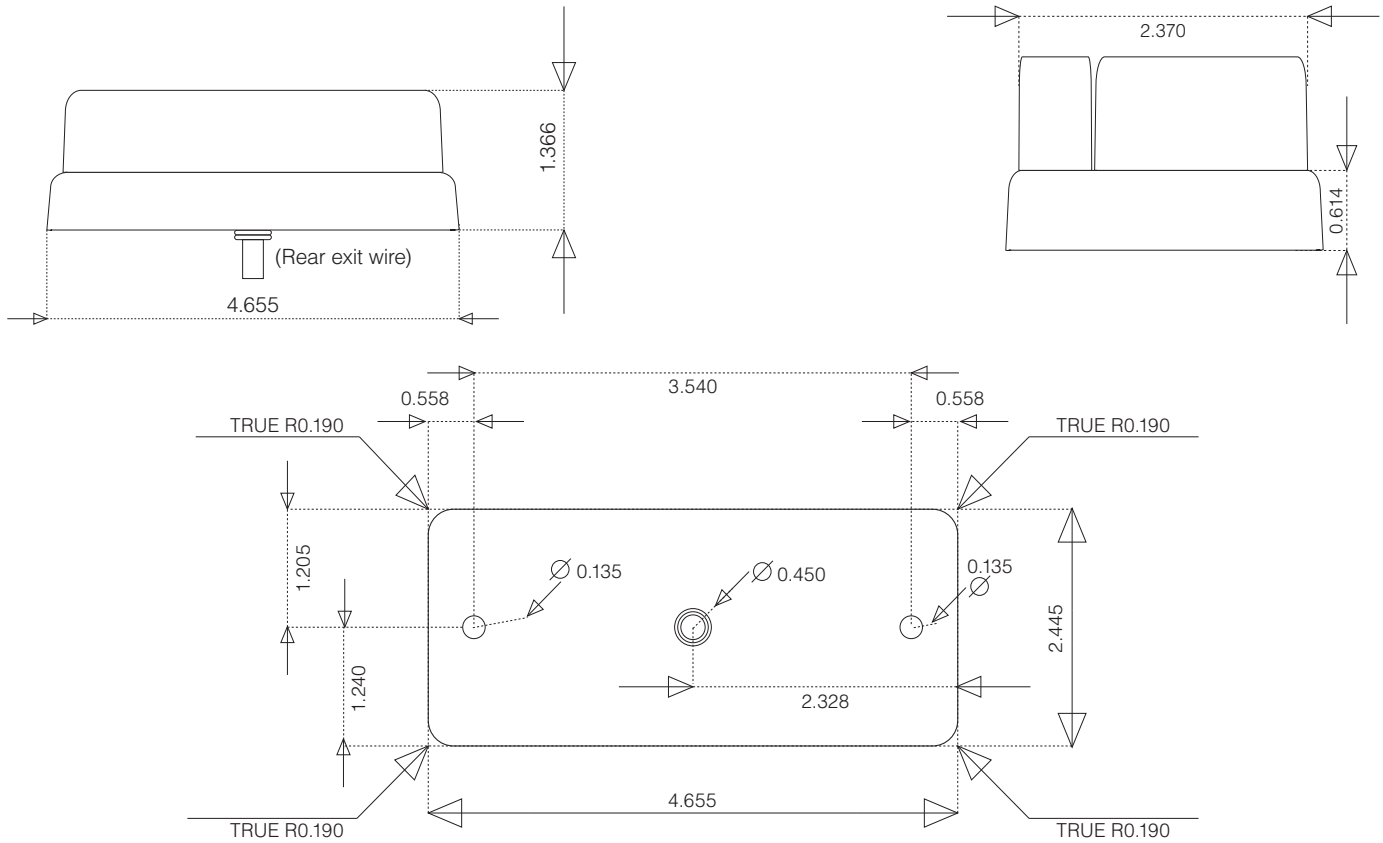
No barcode - 0

No magstripe - 0

Ibc,Hid,Em, Awid, Casi prox - H

TCP / IP Interface – C

Weatherproofing – W

#6 Mounting – 6

Side wire exit – S

12V DC supply – 2

Rs232 with iclass

Sslot-STAx–00ISW6S2

Smart Slot STAx with:

No barcode - 0

No magstripe - 0

Iclass - I

Rs232 - S

Weatherproofing – W

#6 Mounting – 6

Side wire exit – S

12V DC supply – 2

Dimensional Diagrams

1.366

4.655

(Rear exit wire)

2.370

0.614

0.558   3.540   0.558

TRUE R0.190   TRUE R0.190

1.205

1.240

∅ 0.135   ∅ 0.450   0.135

2.445

2.328

4.655

TRUE R0.190   TRUE R0.190

Notes for Ordering Smart Slot STAX

POWER

Standard SAx and STAx series readers are powered with 5V DC. 12V DC, 24V DC and POE are optional.

WIRING

Readers can be ordered with a side wire exit or rear wire exit. 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.

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. For custom wiring or firmware contact IBC.

RELAY

SAx and STAx readers contain a separate wire with flying leads for the relay connections. The relay is isolated for all configurations.

MOUNTING

The reader mounts from behind and is available with a 3mm screw insert or a 6-32 screw insert. The reader may be mounted from the front using the IBC Mounting Kit (Part No. MK-L).

For custom wiring or firmware contact IBC.