

- Reads QR Codes
- Fast Decoding
- Programmable formatting options allow you to choose which data to read from the barcode and how to transmit it
- 8-24Vdc operation
- Optional Relay
- Optional digital inputs for door sensing or an arming loop
- Optional RF (Prox, Iclass, Mifare) including IBC Ec1 support
- Optional Bluetooth
- Single Gang Mounting



Qscan is the perfect reader to read employee ID's, visitor badges, print-at-home event tickets, driver's licenses, and even qr codes from smartphones.

Qscan reads over 30 barcode symbologies, including Code39, Interleaved 2 of 5, PDF417, Datamatrix, Aztec, and QR.

Proximity, iClass®, Mifare, and Bluetooth are available as optional add-ons.

Options:	125K proximity 13.5 Mhz iclass, mifare Bluetooth	Relay Sense inputs
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Interfaces:	Wiegand Rs232 Aba Tcp/ip	F2f Wand emulation Hid 5352 serial
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## Specifications

Barcode Read Range:	3"-18" depending on size of barcode
Symbologies (1D):	Code 39, I 2 of 5, 2 of 5, Code 128, Codabar, Ean8, Ean13, Jan8, Jan13, Upce, Upca, M2of5, K3of5, Postnet, Postbar, Kix, Planet, Msi, Code11, Code93
Symbologies (2D):	Pdf417, Micropdf, QR, Aztec, Datamatrix
Interfaces:	Wiegand, up to 250 bits, aba, f2f, wand, Rs232, TCP / IP, Hid 5352
RF (optional, option H):	125khz prox (lbc,Hid,Awid,Casi,Farpointe,EM)
RF (optional, option I):	13Mhz (Iclass, Iclass SE, Iclass SR, Mifare CSN)
RF (optional, option B):	125khz prox (Hid,Awid,Indala',EM'), 13Mhz (Iclass, Iclass SE, Iclass SR, Mifare CSN)
Relay (optional):	Form C, 500ma max
Digital Inputs (optional):	2, one may be programmed for an arming loop
Power Consumption:	300ma max, 200ma typical@12vdc, Acceptable supply voltage 8-24Vdc
Material:	ABS, Beige, Charcoal Black, or Dark Gray
Dimensions:	5.5" H x 4.25" W x 1.4" D
Weight:	1 lb.
Mounting:	Concealed Front, Single Gang
Indicators:	2 programmable LEDs
Temperature:	-40°C to +85°C
Standard Wiring (Fixed):	3ft (91.5cm) cable with DB9 female (RS232), flying leads (wiegand, aba, wand, f2f), RJ45 (TCP / IP)
Bluetooth:	BLE 4.0 compatible with ibcENTRY app, iphone only. Available only with wiegand (G) output

\*Must be specified at time of order

Specifications Subject to change without notice

## Wiring

### Rs232 Interface

Red	+VDC
Blue	GND
Green	Reader Transmit
Yellow	Reader Receive

### 12v F2F

Red	+VDC
Blue	GND
White	Reserved
Green	Reserved
Orange	Green LED
Yellow	Bi-color LED
Brown	F2F

Special note for wiegand output readers that also contain the BLE option:

In order to provide easy flash updates, readers that contain the Bluetooth option have 2 additional wires. For normal operation the white and brown wires are connected together. They are separated to provide flash updating and programming capability.

### Wiegand / ABA / Wand Interface / 5v F2F (readers without BLE)

Red	+VDC
Blue	GND
White	Data 1 / Mag Data / Wand /f2f
Green	Data 0 / Mag Clock
Orange	Green LED
Yellow	Bi-color LED

### Relay Wiring (All Readers)

Yellow	Normally Closed
Green	Normally Open
Red	Common

### Wiegand (readers with BLE) - see notes on right

Red	+VDC
Blue	GND
White	Barcode/RF Data 1
Brown	Bluetooth Data 1
Green	Data 0
Orange	Green LED
Yellow	Bi-color LED
Black	Used for flash updates only

### Sense Input Wiring

Yellow	Sense Input 1 or Arming Loop
Orange	Sense Input 2

### TCP

RJ45 Plug

# Colors



Dark Gray  
(Code DG)



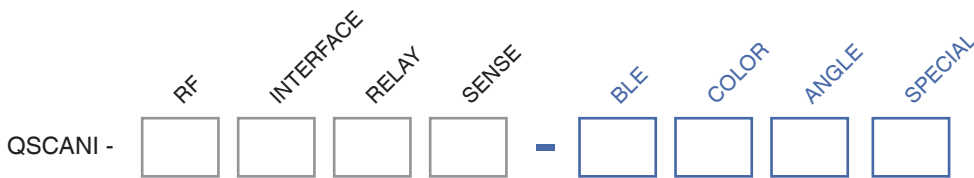
Charcoal Black  
(Code CB)



Beige  
(No Color Code)

## How to Order

Order Qscani with code to indicate options required.



Ble, Color, and Angle are optional parameters. Use only those that are applicable.

### RF

No RF - 0  
 IBC,Hid, Farpointe,Awid,Casi, EM Prox - H<sup>6</sup>  
 Iclass- I<sup>3</sup>  
 Iclass<sup>3</sup> & Hid,Awid,EM<sup>9</sup>,Indala<sup>5,9</sup> Prox - B  
 Mifare CSN- M<sup>7</sup>  
 Indala - D<sup>5</sup>

### INTERFACE<sup>1</sup>

Rs232 - S  
 TCP / IP - C  
 Wiegand/aba/wand/f2f(5v) - G  
 F2F(12v) - F  
 USB Serial - U<sup>11</sup>

### RELAY<sup>4</sup>

No Relay - 0  
 Relay - R

### SENSE INPUTS<sup>2</sup>

No Sense Inputs - 0  
 Sense Inputs - S

### BLE (Bluetooth)<sup>10</sup>

No Bluetooth - leave blank  
 Bluetooth - B

### COLOR

Beige - leave blank:  
 Charcoal Black - CB  
 Dark Gray - DG

### ANGLE

5 degrees<sup>8</sup> - leave blank  
 0 degrees - 0  
 23 degrees - 1

### SPECIAL (-?)

Use this only for special configurations for which IBC has assigned you a number. The dash must precede your code.

<sup>1</sup>For Hid 5352 serial emulation order RS232

<sup>2</sup>For Armed Loop use, order Sense Inputs

Sense inputs available as an option only with RS232 or TCP interfaces. Sense inputs are standard with wiegand interface units (code G).

<sup>3</sup>HID Application Area PACS data from Iclass, Iclass SE, Iclass SR, Iclass SEOS

<sup>4</sup>Relay available only with RS232 or TCP interfaces

<sup>5</sup>Indala 26 bit

<sup>6</sup>Casi support Proxlite 40 bit. EM support 32 bit or 40 bit. Not all formats supported. Contact IBC for more information.

<sup>7</sup>Mifare CSN only.

<sup>8</sup>Default Angle is 5 degrees

<sup>9</sup>Must be specified at time of order.

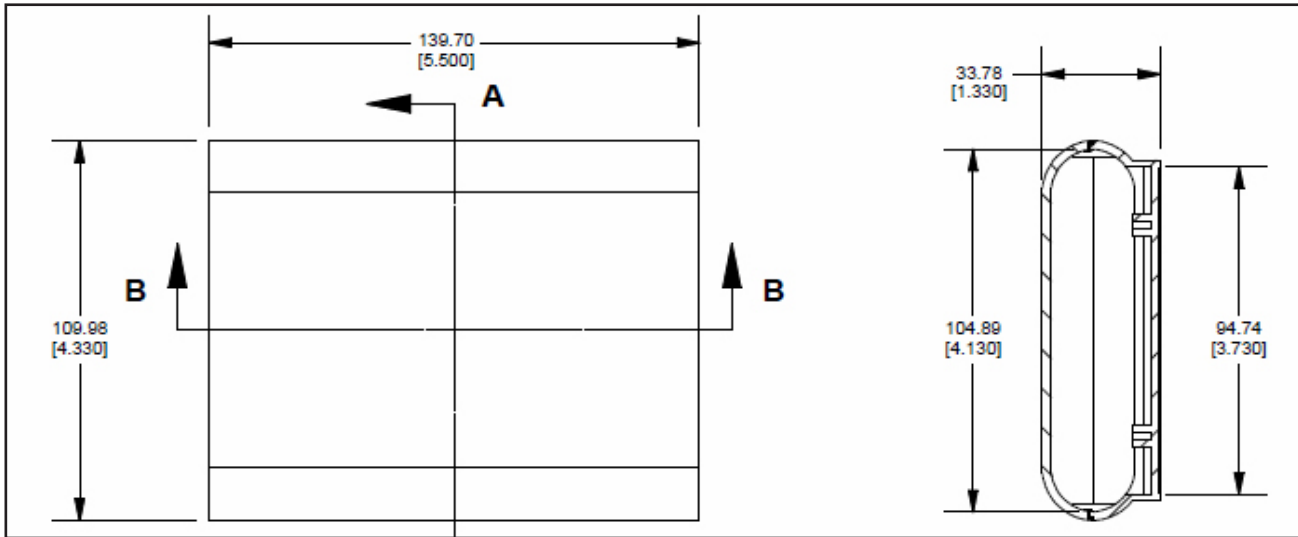
<sup>10</sup>Bluetooth available with wiegand interface only. Bluetooth not available with RF options I,B,M Use requires subscription to ibcENTRY app.

<sup>11</sup>Minimum quantity required.

### EXAMPLES:

QSCANI-0G000  
 QSCANI-0G00B  
 QSCANI-HCR0DG  
 QSCANI-BG00CB1

Qscani with wiegand interface  
 Qscani with wiegand interface and bluetooth  
 Qscani with 125K prox,tcp interface, relay, dark gray housing  
 Qscani with 125K prox and 13.5mhz iclass, wiegand interface, charcoal black housing, 23 degree scan angle



## Notes for Ordering Qscani

### POWER

Qscan readers are powered by 12Vdc. You can use your own power source or request an AC adapter from IBC when ordering. If connecting to an access panel verify that the panel can supply the required power to operate the Qscan.

### WIRING

Standard wiring for Qscan readers with wiegand, aba, wand, or f2f is a 3' cable containing all data, led, and power wires.

Standard wiring for RS232 readers is a 3' cable with a DB9 female connector. The pin-out is a direct connect to a pc. Connected to the DB9 connector is a short power pigtail for applying power or connecting an ac adapter.

Standard wiring for Qscan readers with tcp/ip is a 3' cable with an rj45 plug.

### RF

Qscan can be ordered with embedded proximity to read Ibc, Hid, Awid, EM, Casi, and Farpointe cards. Qscan can also be ordered with embedded 13mhz support to read either Hid Iclass cards (HID Application Area PACS data), or Mifare CSN. Qscan can also be ordered to read both Hid prox and Iclass.

### SENSE INPUTS

2 digital inputs may optionally be ordered. The digital inputs can be used for a door sense, gate sense, arming loop, or request to exit. Sense inputs are available with RS232 and TCP interfaces. Note arming loop functionality not available for Bluetooth.

### RELAY

The optional relay is a form C relay and has a separate wire exiting the rear of the reader containing the isolated relay lines. A Relay is available with RS232 and TCP interfaces.

### BLUETOOTH

Bluetooth can be ordered as an option only on readers ordered with a wiegand output. Not all configurations are possible with the Bluetooth option. Contact IBC for more information.

For custom wiring or firmware contact IBC.