

- Read barcodes from Cell Phones
- Fast Barcode Decoding
- Programmable formatting options
- 8-24Vdc operation
- Reads QR codes and Driver's Licenses
- Prox support for Ibc, Hid, Indala, Awid, EM, Casi, Farpointe
- 13.56mhz support for Iclass, Iclass SR, Iclass SE, Seos, Mifare CSN.
- Iclass reading - Programmed ID number, or CSN
- Customization available
- Optional Relay
- Optional Bluetooth



Integration of multiple technologies was never this easy. With Qscant you can read 1D and 2D barcodes, proximity cards, and 13.5mhz smart cards including Iclass SE and Mifare. Qscant is also optimized to read 2D barcodes from cell phones.

Over 30 barcode symbologies are supported, and best of all - the wiegand/aba/f2f interface makes connection to panels effortless, and the TCP/IP interface allows for easy network integration.

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

### Options:

125K proximity  
13.5 Mhz iclass, mifare  
Bluetooth

Relay  
Sense inputs

### Interfaces:

Wiegand  
Rs232  
Aba  
Tcp/ip

F2f  
Wand emulation  
Hid 5352 serial

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):	QR, Pdf417, Micropdf, Aztec, Datamatrix
Interfaces:	Wiegand, up to 250 bits, aba, f2f (ttl level), wand emulation, RS232, Tcp/ip
RF (optional, option H):	125khz prox (Ibc,Hid,Awid,Casi,Farpointe,EM)
RF (optional, option I):	13Mhz (Iclass, Iclass SE, Iclass SR, Seos, Mifare CSN)
RF (optional, option B):	125khz prox (Hid,Awid,Indala <sup>1</sup> ,EM <sup>1</sup> ), 13Mhz (Iclass, Iclass SE, Iclass SR, Seos, Mifare CSN)
Power Consumption:	8-24Vdc, 500ma @ 12vdc peak, 200ma typical
Material:	Black ABS
Dimensions:	5" x 3.5" x 3.25" H approx. (standard model)
Weight:	10 oz.
Relay (optional):	Form C, 30Vdc 500ma max, available with rs232 or tcp interface only
Mounting:	4 screw bosses, #6
Indicators:	Good Read beep, Internal Led indicator (not available on -OR units)
Temperature:	-40°C to +85°C
Wiring:	Terminal block (wiegand,aba,Rs232,Relay) or RJ45 plug (Tcp/ip)
Bluetooth:	BLE 4.0 compatible with ibcENTRY app, iphone only. Available only with wiegand (G) output

<sup>1</sup>Must be specified at time of order

Specifications Subject to change without notice

## Wiring

Terminal Block Positions. Note position 1 is closest to the speaker.

### Wiegand / ABA / Wand Interface / 5v F2F

Pos 1	S2/NC
Pos 2	S1/NC
Pos 3	Data 1 / Mag Data / Wand /f2f
Pos 4	Data 0 / Mag Clock
Pos 5	+VDC
Pos 6	GND

### Rs232 Interface

Pos 1	S2/NC
Pos 2	S1/NC
Pos 3	Reader Receive
Pos 4	Reader Transmit
Pos 5	+VDC
Pos 6	GND

### TCP

RJ45 Plug and	
Pos 1	S2/NC
Pos 2	S1/NC
Pos 3	NC
Pos 4	NC
Pos 5	+VDC
Pos 6	GND

### Optional Relay

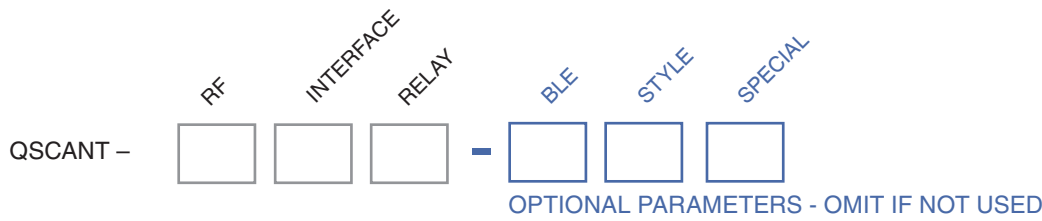
Pos 7	Normally Closed
Pos 8	Normally Open
Pos 9	Common

### Optional Bluetooth

Pos 1	NC
Pos 2	NC
Pos 3	Data 1 / Mag Data / Wand /f2f
Pos 4	Data 0 / Mag Clock
Pos 5	+VDC
Pos 6	GND

### Special note for Qscant's that also contain the BLE option:

The bluetooth board is separate and only Positions 1 through 4 are used. Wires connected to these positions should be combined with the similar block positions on the main board.



**RF**

None - 0  
 IBC,Hid, Farpointe,Awid,Casi, EM Prox - H<sup>5</sup>  
 Iclass- I<sup>2</sup>  
 Iclass<sup>2</sup> & Hid,Awid,EM<sup>4</sup>,Indala<sup>3,4</sup> Prox - B  
 Mifare CSN- M<sup>6</sup>

**INTERFACE<sup>1</sup>**

Rs232 - S<sup>9</sup>  
 TCP/IP - C<sup>9</sup>  
 Wiegand / ABA / Magstripe /  
 f2f / wand / wieaba /  
 alphanumeric wiegand - G

**RELAY (rs232 or tcp only)**

No Relay - 0  
 Relay - R

**BLE (Bluetooth)<sup>7</sup>**

No Bluetooth - leave blank  
 Bluetooth - B

**STYLE<sup>8</sup>**

Standard Model - leave blank  
 Orion Model A - OR  
 Orion Model B - ORB  
 Alvarado Model A - AL  
 Automatic Systems Model A - ASA

**SPECIAL (-?)**

Use this only for special configurations for which IBC has assigned you a number.

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

<sup>2</sup>HID Application Area PACS data from Iclass, Iclass SE, Iclass SR, Iclass SEOS

<sup>3</sup>Indala 26 bit

<sup>4</sup>EM and Indala are not enabled by default. If you want EM or Indala support it must be specified at time of order. Not all Indala card types supported.

<sup>5</sup>Casi support Proxlite 40 bit. EM support 32 bit or 40 bit. Not all formats supported. Contact IBC for more information.

<sup>6</sup>Mifare CSN only.

<sup>7</sup>Bluetooth available with wiegand interface only. Use requires subscription to ibcENTRY app.

<sup>8</sup>Contact your turnstile manufacturer to determine which size you should be using.

<sup>9</sup>Minimum purchase quantities may apply.

**EXAMPLES:**

QSCANT-0G0	Standard size Qscant with wiegand interface
QSCANT-0G0-B	Standard size Qscant with wiegand interface and bluetooth
QSCANT-0G0-BOR	Qscant with wiegand interface and bluetooth for use in Orion turnstiles (size A)
QSCANT-BSR	Standard size Qscant with 125K prox and 13.5mhz iclass, rs232 interface, and relay
QSCANT-0C0	Standard size Qscant with tcp interface

**SOME COMBINATIONS MAY NOT BE VALID  
 FOR ALL VALID ORDERING COMBINATIONS SEE PAGES 5-9**

# Notes for Ordering Qscant

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## POWER

Qscant 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 Qscant.

## WIRING

All Qscant readers are supplied with a 6 position terminal block (9 if a relay is provided). Readers with tcp interface include a 3' cable with an rj45 plug, in addition to the terminal block.

## RF

Qscant can be ordered with embedded proximity to read Ibc, Hid, Awid, EM, Casi, and Farpointe cards. Qscant can also be ordered with embedded 13mhz support to read either Hid Iclass cards (HID Application Area PACS data), and/or mifare cards (serial number only). Qscant can also be ordered to read both Hid prox and Iclass, and/or mifare serial number.

## SENSE INPUTS

2 digital inputs are standard on the Qscant. The digital inputs can be used to control the internal led (standard sized units only), or for door sense, gate sense, arming loop, and request to exit functions for rs232 and tcp versions. Note: arming loop functionality not available for Bluetooth.

## RELAY

The optional relay is a form C relay and is available with RS232 and TCP interfaces.

## STYLE

Qscant is currently available in 5 different sizes: the standard size, two smaller sizes for Orion turnstiles, a smaller size for Alvarado turnstiles, and a smaller size for ASA.

Consult with your turnstile manufacturer prior to ordering to ensure that you order the proper unit.

## 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.

A bluetooth/tcp system may be implemented by combining a wiegand output QscanT with an IBC 7000 interface board. Contact IBC for more information.

Bluetooth use requires subscription to the IBCEntry app or a Qualified Oem app.

For custom wiring or firmware contact IBC.

## Valid Ordering Codes - Standard Size Qscan

PART NUMBER	DESCRIPTION	COMMENTS
QSCANT-0G0	Wiwegand Output, barcode only	
QSCANT-HG0	Wiwegand Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe)	
QSCANT-IG0	Wiwegand Output, barcode and Iclass	
QSCANT-BG0	Wiwegand Output, barcode and 125k prox (hid,awid) and Iclass	
QSCANT-MG0	Wiwegand Output, barcode and Mifare CSN	
QSCANT-0G0-B	Wiwegand Output, barcode and bluetooth	
QSCANT-HG0-B	Wiwegand Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe) and bluetooth	
QSCANT-IG0-B	Wiwegand Output, barcode and Iclass and bluetooth	
QSCANT-BG0-B	Wiwegand Output, barcode and 125k prox (hid,awid) and Iclass and bluetooth	
QSCANT-MG0-B	Wiwegand Output, barcode and Mifare CSN and bluetooth	
QSCANT-0S0	Rs232 Output, barcode only	MOQ
QSCANT-HS0	Rs232 Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe)	MOQ
QSCANT-IS0	Rs232 Output, barcode and Iclass	MOQ
QSCANT-BS0	Rs232 Output, barcode and 125k prox (hid,awid) and Iclass	MOQ
QSCANT-MS0	Rs232 Output, barcode and Mifare CSN	MOQ
QSCANT-0SR	Rs232 Output, barcode only with relay	MOQ
QSCANT-HSR	Rs232 Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe) with relay	MOQ
QSCANT-ISR	Rs232 Output, barcode and Iclass with relay	MOQ
QSCANT-BSR	Rs232 Output, barcode and 125k prox (hid,awid) and Iclass with relay	MOQ
QSCANT-MSR	Rs232 Output, barcode and Mifare CSN with relay	MOQ
QSCANT-0C0	Tcp Output, barcode only	MOQ
QSCANT-HC0	Tcp Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe)	MOQ
QSCANT-IC0	Tcp Output, barcode and Iclass	MOQ
QSCANT-BC0	Tcp Output, barcode and 125k prox (hid,awid) and Iclass	MOQ
QSCANT-MC0	Tcp Output, barcode and Mifare CSN	MOQ
QSCANT-0CR	Tcp Output, barcode only with relay	MOQ
QSCANT-HCR	Tcp Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe) with relay	MOQ
QSCANT-ICR	Tcp Output, barcode and Iclass with relay	MOQ
QSCANT-BCR	Tcp Output, barcode and 125k prox (hid,awid) and Iclass with relay	MOQ
QSCANT-MCR	Tcp Output, barcode and Mifare CSN with relay	MOQ

MOQ - Minimum order quantities may apply

## Valid Ordering Codes for use in Orion Turnstiles Model “A”

PART NUMBER	DESCRIPTION	COMMENTS
QSCANT-0G0-OR	Wiwegand Output, barcode only	
QSCANT-HG0-OR	Wiwegand Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe)	
QSCANT-IG0-OR	Wiwegand Output, barcode and Iclass	
QSCANT-BG0-OR	Wiwegand Output, barcode and 125k prox (hid,awid) and Iclass	
QSCANT-MG0-OR	Wiwegand Output, barcode and Mifare CSN	
QSCANT-0G0-BOR	Wiwegand Output, barcode and bluetooth	MV
QSCANT-HG0-BOR	Wiwegand Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe) and bluetooth	MV
QSCANT-IG0-BOR	Wiwegand Output, barcode and Iclass and bluetooth	MV
QSCANT-BG0-BOR	Wiwegand Output, barcode and 125k prox (hid,awid) and Iclass and bluetooth	MV
QSCANT-MG0-BOR	Wiwegand Output, barcode and Mifare CSN and bluetooth	MV
QSCANT-0S0-OR	Rs232 Output, barcode only	MOQ,MV
QSCANT-HS0-OR	Rs232 Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe)	MOQ,MV
QSCANT-IS0-OR	Rs232 Output, barcode and Iclass	MOQ,MV
QSCANT-BS0-OR	Rs232 Output, barcode and 125k prox (hid,awid) and Iclass	MOQ,MV
QSCANT-MS0-OR	Rs232 Output, barcode and Mifare CSN	MOQ,MV
QSCANT-0SR-OR	Rs232 Output, barcode only with relay	MOQ,MV
QSCANT-HSR-OR	Rs232 Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe) with relay	MOQ,MV
QSCANT-ISR-OR	Rs232 Output, barcode and Iclass with relay	MOQ,MV
QSCANT-BSR-OR	Rs232 Output, barcode and 125k prox (hid,awid) and Iclass with relay	MOQ,MV
QSCANT-MSR-OR	Rs232 Output, barcode and Mifare CSN with relay	MOQ,MV
QSCANT-0C0-OR	Tcp Output, barcode only	MOQ,MV
QSCANT-HC0-OR	Tcp Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe)	MOQ,MV
QSCANT-IC0-OR	Tcp Output, barcode and Iclass	MOQ,MV
QSCANT-BC0-OR	Tcp Output, barcode and 125k prox (hid,awid) and Iclass	MOQ,MV
QSCANT-MC0-OR	Tcp Output, barcode and Mifare CSN	MOQ,MV
QSCANT-0CR-OR	Tcp Output, barcode only with relay	MOQ,MV
QSCANT-HCR-OR	Tcp Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe) with relay	MOQ,MV
QSCANT-ICR-OR	Tcp Output, barcode and Iclass with relay	MOQ,MV
QSCANT-BCR-OR	Tcp Output, barcode and 125k prox (hid,awid) and Iclass with relay	MOQ,MV
QSCANT-MCR-OR	Tcp Output, barcode and Mifare CSN with relay	MOQ,MV

MOQ - Minimum order quantities may apply

MV - Contact IBC. This configuration must be validated by Orion.

ORION TURNSTILES SUPPORT MULTIPLE SIZES OF QSCANT READERS. VERIFY WITH ORION WHICH VERSION YOU NEED PRIOR TO ORDER

## Valid Ordering Codes for use in Orion Turnstiles Model “B”

PART NUMBER	DESCRIPTION	COMMENTS
QSCANT-0G0-ORB	Wiwegand Output, barcode only	
QSCANT-HG0-ORB	Wiwegand Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe)	
QSCANT-IG0-ORB	Wiwegand Output, barcode and Iclass	
QSCANT-BG0-ORB	Wiwegand Output, barcode and 125k prox (hid,awid) and Iclass	
QSCANT-MG0-ORB	Wiwegand Output, barcode and Mifare CSN	
QSCANT-0G0-BORB	Wiwegand Output, barcode and bluetooth	MV
QSCANT-HG0-BORB	Wiwegand Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe) and bluetooth	MV
QSCANT-IG0-BORB	Wiwegand Output, barcode and Iclass and bluetooth	MV
QSCANT-BG0-BORB	Wiwegand Output, barcode and 125k prox (hid,awid) and Iclass and bluetooth	MV
QSCANT-MG0-BORB	Wiwegand Output, barcode and Mifare CSN and bluetooth	MV
QSCANT-0S0-ORB	Rs232 Output, barcode only	MOQ,MV
QSCANT-HS0-ORB	Rs232 Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe)	MOQ,MV
QSCANT-IS0-ORB	Rs232 Output, barcode and Iclass	MOQ,MV
QSCANT-BS0-ORB	Rs232 Output, barcode and 125k prox (hid,awid) and Iclass	MOQ,MV
QSCANT-MS0-ORB	Rs232 Output, barcode and Mifare CSN	MOQ,MV
QSCANT-0SR-ORB	Rs232 Output, barcode only with relay	MOQ,MV
QSCANT-HSR-ORB	Rs232 Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe) with relay	MOQ,MV
QSCANT-ISR-ORB	Rs232 Output, barcode and Iclass with relay	MOQ,MV
QSCANT-BSR-ORB	Rs232 Output, barcode and 125k prox (hid,awid) and Iclass with relay	MOQ,MV
QSCANT-MSR-ORB	Rs232 Output, barcode and Mifare CSN with relay	MOQ,MV
QSCANT-0C0-ORB	Tcp Output, barcode only	MOQ,MV
QSCANT-HC0-ORB	Tcp Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe)	MOQ,MV
QSCANT-IC0-ORB	Tcp Output, barcode and Iclass	MOQ,MV
QSCANT-BC0-ORB	Tcp Output, barcode and 125k prox (hid,awid) and Iclass	MOQ,MV
QSCANT-MC0-ORB	Tcp Output, barcode and Mifare CSN	MOQ,MV
QSCANT-0CR-ORB	Tcp Output, barcode only with relay	MOQ,MV
QSCANT-HCR-ORB	Tcp Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe) with relay	MOQ,MV
QSCANT-ICR-ORB	Tcp Output, barcode and Iclass with relay	MOQ,MV
QSCANT-BCR-ORB	Tcp Output, barcode and 125k prox (hid,awid) and Iclass with relay	MOQ,MV
QSCANT-MCR-ORB	Tcp Output, barcode and Mifare CSN with relay	MOQ,MV

MOQ - Minimum order quantities may apply

MV - Contact IBC. This configuration must be validated by Orion.

ORION TURNSTILES SUPPORT MULTIPLE SIZES OF QSCANT READERS. VERIFY WITH ORION WHICH VERSION YOU NEED PRIOR TO ORDER

## Valid Ordering Codes for use in Alvarado Turnstiles

PART NUMBER	DESCRIPTION	COMMENTS
QSCANT-0G0-AL	Wiegand Output, barcode only	
QSCANT-HG0-AL	Wiegand Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe)	
QSCANT-IG0-AL	Wiegand Output, barcode and Iclass	
QSCANT-BG0-AL	Wiegand Output, barcode and 125k prox (hid,awid) and Iclass	
QSCANT-MG0-AL	Wiegand Output, barcode and Mifare CSN	
QSCANT-0G0-BAL	Wiegand Output, barcode and bluetooth	MV
QSCANT-HG0-BAL	Wiegand Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe) and bluetooth	MV
QSCANT-IG0-BAL	Wiegand Output, barcode and Iclass and bluetooth	MV
QSCANT-BG0-BAL	Wiegand Output, barcode and 125k prox (hid,awid) and Iclass and bluetooth	MV
QSCANT-MG0-BAL	Wiegand Output, barcode and Mifare CSN and bluetooth	MV
QSCANT-0S0-AL	Rs232 Output, barcode only	MOQ,MV
QSCANT-HS0-AL	Rs232 Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe)	MOQ,MV
QSCANT-IS0-AL	Rs232 Output, barcode and Iclass	MOQ,MV
QSCANT-BS0-AL	Rs232 Output, barcode and 125k prox (hid,awid) and Iclass	MOQ,MV
QSCANT-MS0-AL	Rs232 Output, barcode and Mifare CSN	MOQ,MV
QSCANT-0SR-AL	Rs232 Output, barcode only with relay	MOQ,MV
QSCANT-HSR-AL	Rs232 Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe) with relay	MOQ,MV
QSCANT-ISR-AL	Rs232 Output, barcode and Iclass with relay	MOQ,MV
QSCANT-BSR-AL	Rs232 Output, barcode and 125k prox (hid,awid) and Iclass with relay	MOQ,MV
QSCANT-MSR-AL	Rs232 Output, barcode and Mifare CSN with relay	MOQ,MV
QSCANT-0C0-AL	Tcp Output, barcode only	MOQ,MV
QSCANT-HC0-AL	Tcp Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe)	MOQ,MV
QSCANT-IC0-AL	Tcp Output, barcode and Iclass	MOQ,MV
QSCANT-BC0-AL	Tcp Output, barcode and 125k prox (hid,awid) and Iclass	MOQ,MV
QSCANT-MC0-AL	Tcp Output, barcode and Mifare CSN	MOQ,MV
QSCANT-0CR-AL	Tcp Output, barcode only with relay	MOQ,MV
QSCANT-HCR-AL	Tcp Output, barcode and 125k prox (ibc,hid,casi,em,awid,farpointe) with relay	MOQ,MV
QSCANT-ICR-AL	Tcp Output, barcode and Iclass with relay	MOQ,MV
QSCANT-BCR-AL	Tcp Output, barcode and 125k prox (hid,awid) and Iclass with relay	MOQ,MV
QSCANT-MCR-AL	Tcp Output, barcode and Mifare CSN with relay	MOQ,MV

MOQ - Minimum order quantities may apply

MV - Contact IBC. This configuration must be validated by Alvarado for each turnstile.

ALVARADO TURNSTILES SUPPORT MULTIPLE SIZES OF QSCANT READERS. VERIFY WITH ALVARADO WHICH VERSION YOU NEED PRIOR TO ORDER



## Valid Ordering Codes for use in Automatic Systems Turnstiles

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PART NUMBER	DESCRIPTION	COMMENTS
QSCANT-0G0-ASA	Wiwegand Output, barcode only	
QSCANT-0G0-BASA	Wiwegand Output, barcode and bluetooth	MV
QSCANT-0S0-ASA	Rs232 Output, barcode only	MOQ,MV
QSCANT-0SR-ASA	Rs232 Output, barcode only with relay	MOQ,MV
QSCANT-0C0-ASA	Tcp Output, barcode only	MOQ,MV
QSCANT-0CR-ASA	Tcp Output, barcode only with relay	MOQ,MV

MOQ - Minimum order quantities may apply

MV - Contact IBC. This configuration must be validated by ASA for each turnstile.