DX6400
INSTALLATION QUICK REFERENCE





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For further details on product installation, see the complete Reference Manual available on the configuration CD-ROM included with this product.



DX6400-100-010 MASTER/SLAVE MODEL



Figure A

1 Laser Beam Output Window





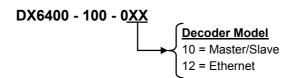
Figure B

- 1 Programming Keypad
- 4 Power On LED (Red)5 LCD Display
- 2 TX Data LED (Green)
- (3) Phase On LED (Yellow)

Figure C

- 1 Main/Aux. Interface 25-pin D-sub Male Connector
- 2 Lonworks 9-pin Male Connector
- 3 Lonworks 9-pin Female Connector

Available Models:



Technical Features:

ELECTRICAL FEATURES		OPTICAL FEATURES		
Supply Voltage	15 - 30 Vdc		Light Receiver	Avalanche photodiode
Power	18 W typical		Wavelength	630 to 680 nm
Consumption	24 W Max. (including	g startup current)	Safety Class	Class 2-EN 60825-1;
Communication	Main (isolated)	Baud Rate		Class II-CDRH
Interfaces	RS232		Laser Control	Security system to turn laser
	RS485 full-duplex	1200 to 115200		off in case of motor slow down
	RS485 half-duplex		READING FEATURES	
	20 mA C.L. (INT-30 with C-BOX 100 only)	19200	Scan Rate	500-750 scans/s for each scan line (1000 – 1500 total)
	Auxiliary			
	RS232	1200 to 115200	Max. Resolution	
	Other		Max. Read. Distance Max. Read. Width	(see reading diagram)
	Lonworks	1,25 Mb/s	Max. Depth of Field	(See reading diagram)
Inputs Ext. Trigger 1,				
3 aux. digital	(optocoupled NPN	or PNP)	USER INTERFACE	
inputs			LCD Display	2 lines by 16 characters LCD
Outputs			Keypad	3 keys
3 software			LED Indicators	Power ON (red color) Phase ON (yellow color)
programmable digital outputs	(optocoupled)			TX Data (green color)



SOFTWARE FEATUR	RES	ENVIRONMENTAL	FEATURES	
Readable Codes	Interleaved 2/5 Code 39 standard	Operating Temperature	0° to +40 °C (+32 to +104 °F)	
	Codabar Code 128	Storage Temperature	-20° to +70 °C (-4° to +158 °F)	
	EAN 128	Humidity	90% non condensing	
	Code 93 (standard & full ASCII)	Vibration	IEC 68-2-6 test FC	
	EAN/UPC	Resistance	1.5 mm; 10 to 55 Hz	
Code Selection	Up to 10 codes during one reading phase		2 hours on each axis	
Headers and	Up to 128-byte headers and	Shock Resistance	IEC 68-2-27 test EA	
Terminators	128-byte terminators		30 G; 11 ms	
Operating Modes	On Line, Automatic, Test, PackTrack		3 shocks on each axis	
Config. Mode	Genius™ utility program	Protection Class	IP64	
Parameter Storage	Non-volatile internal FLASH	PHYSICAL FEATURES		
		Dimensions mm	225.9 x 149.8 x 116.8	
		(inch)	(8.89 x 5.90 x 4.60)	
		Weight	2.1 Kg (4.62 lbs.)	

Accessories:

Name	Description	Part Number
CAB-6001	Cable to C-BOX100 1 m	93A051190
CAB-6002	Cable to C-BOX100 2 m	93A051200
CAB-6005	Cable to C-BOX100 5 m	93A051210
CAB-6010	Cable to C-BOX100 10 m	93A051271
CAB-6101	Cable master/slave 1 m	93A051220
CAB-6102	Cable master/slave 2 m	93A051230
CAB-6105	Cable master/slave 5 m	93A051240
CAB-6112	Cable master/slave no power 2 m	93A051224
CAB-6115	Cable master/slave no power 5 m	93A051225
CAB-6305	Power cable Fam 6k 5 m	93ACC1768
CAB-6310	Power cable Fam 6k 10 m	93ACC1752
C-BOX 100	Passive connection box	93ACC1510
INT-30	20 mA C.L. interface board for C-BOX 100	93A151022
C-BOX 300	Profibus-DP connection box	93A301000
C-BOX 310	Profibus-DP connection box with display	93A301030
C-BOX 400	Devicenet connection box	93A301010
C-BOX 410	Devicenet connection box with display	93A301040
PWR-120	Power unit 110/230 V AC - 24 V DC	93ACC1530
BTK-6000	Terminator kit (5 pcs)	93ACC1710
PG6002	Single unit power supply – US	93ACC1718
PG6001	Single unit power supply – UK	93ACC1719
PG6000	Single unit power supply – EU	93ACC1720
FBK-6000	Fast bracket kit (2 pcs)	93ACC1721
MEP-542	Photocell kit – PNP	93ACC1727
MEP-543	Photocell kit – NPN	93ACC1728

Electrical Connections:

The DX6400 reader provides a 25-pin male D-sub connector for connection to power supply, Host interface (Main and Aux), and input/output signals.

Two 9-pin connectors provide access to the scanner's local Lonworks network used for both input and output connections to build a multi-sided or omni-station system.



The details of the connector pins are indicated in the following table:

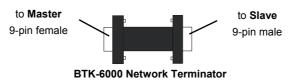
	25-pin D-Sub Connector Pinout					
Pin	Name	ne Function				
1	Shield		connected by capacitor to			
20	RXAUX	Receive d	lata of auxiliary RS232 (re	ferred to GND)		
21	TXAUX	Transmit of	data of auxiliary RS232 (re	eferred to GND)		
8	OUT 1+	Configura	ble digital output 1 – posit	ive pin		
22	OUT 1-	Configura	ble digital output 1 – nega	tive pin		
11	OUT 2+	Configura	ble digital output 2 – posit	ive pin		
12	OUT 2-	Configura	ble digital output 2 – nega	tive pin		
16	OUT 3A	Configura	ble digital output 3 – polar	ity insensitive	1	13
17	OUT 3B	Configura	ble digital output 3 – polar	ity insensitive	(• • •	• • • • • • • • •)
18	EXT_TRIG A	External to	rigger (polarity insensitive))	••	•••••••
19	EXT_TRIG B	External to	rigger (polarity insensitive))	14 25 mil	25 n mala D aub Connector
6	IN2A	Input sign	al 2 (polarity insensitive)		25-pii	n male D-sub Connector
10	IN2B	Input sign	al 2 (polarity insensitive)			
14	IN3A	Input sign	al 3 (polarity insensitive)			
15	IN4A	Input signa	al 4 (polarity insensitive)			
24	IN_REF	Common r	reference of IN3 and IN4 (po	plarity insensitive)		
9, 13	VS	Supply vo	ltage – positive pin			
23, 25	GND	Supply vo	ltage – negative pin			
Pin	RS23	2	RS485 Full-Duplex RS485 Half-Duplex (INT-30 with C			
2	TX		TX485+ RTX485+			
3	RX		RX485+			
4	RTS		TX485-	RTX485- see INT-30 instruction		see INT-30 instructions
5	CTS		RX485-			
7	GND_IS	80	GND_ISO	GND_IS	0	

^{*} For 20 mA C.L. connections, GND is the same of the scanner power supply.

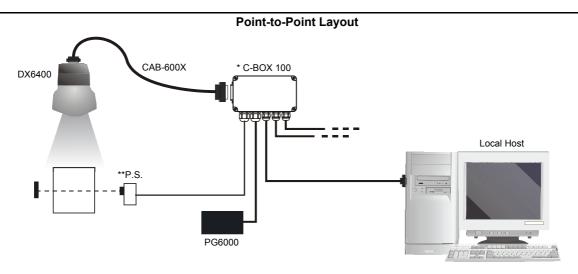
	9-pin Lonworks Connector Pinout							
Pin	Name	Function						
1	Shield	Cable shield						
9	VS	Supply voltage – positive pin	5 1 1 5					
2	GND	Supply voltage – negative pin	5 1 1 5					
6	VS_I/O	Supply voltage of I/O circuit	(00000) (••••)					
3	Ref_I/O	Reference voltage of I/O circuit						
4	SYS_ENC_I/O	System signal	9 6 6 9					
5	SYS_I/O	System signal	Female Male					
7	LON A	Lonworks line (polarity insensitive)	9-pin Local Lonworks Connectors					
8	LON B	Lonworks line (polarity insensitive)						

Network Termination:

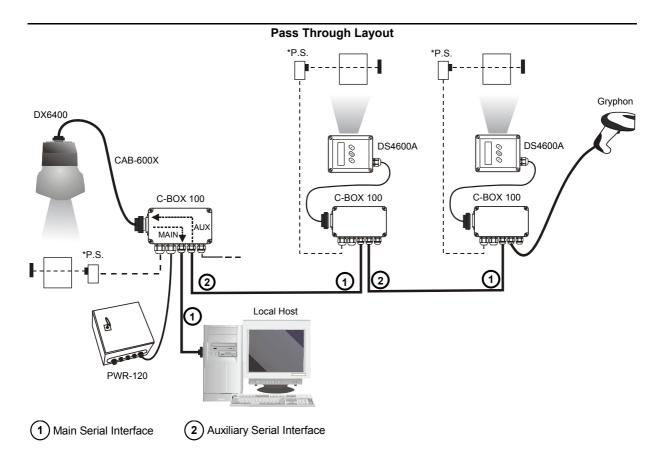
When building a local Lonworks system the network must be properly terminated by positioning a BTK-6000 terminator on the DX6400 master reader (BTK-6000 female side) and on the last slave reader (BTK-6000 male side).



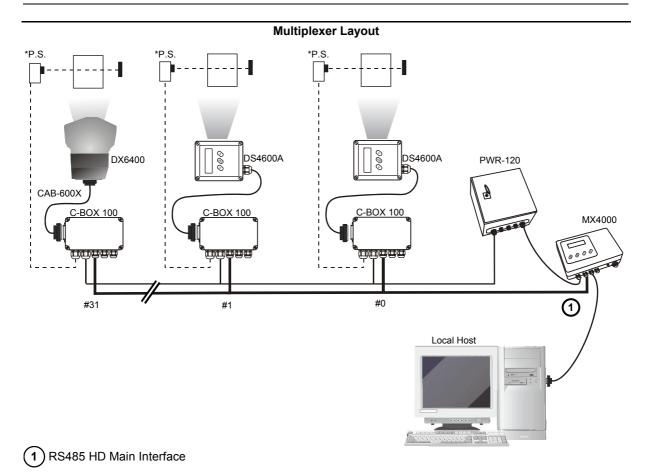
Connectivity:



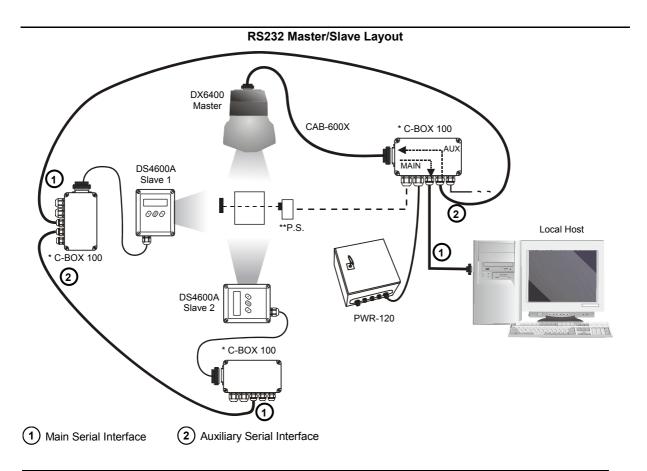
- * C-BOX 100 can support up to 2 DX6400 readers. Please contact Datalogic USS Technical Support, if your application requires a multi-slave network.
- ** P.S. (Presence Sensor) connected to External Trigger input.



* P.S. (Presence Sensor) connected to External Trigger input.



* P.S. (Presence Sensor) connected to External Trigger input.

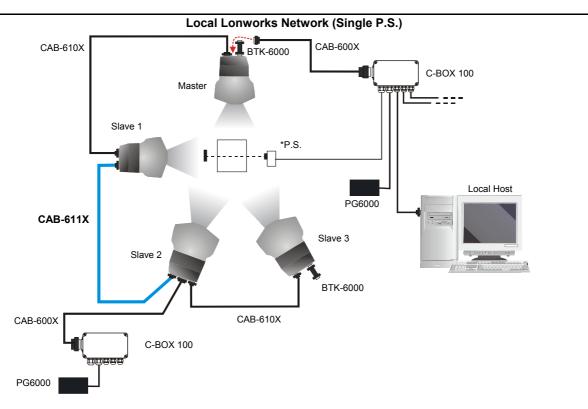




CAB-610X CAB-600X C-BOX 100 P.S. P.S. PG6000

Single P.S. with 2 Readers

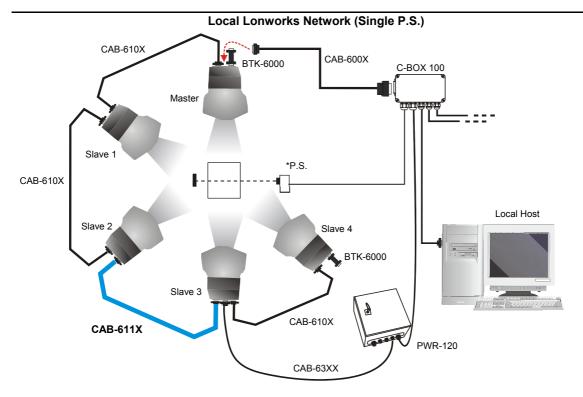
* P.S. (Presence Sensor) connected to External Trigger input.



Single P.S. with more than 2 Readers and Multiple Power Units

* P.S. (Presence Sensor) connected to External Trigger input.





Single P.S. with more than 2 Readers and Single Power Unit

• P.S. (Presence Sensor) connected to External Trigger input.



DX6400-100-012 ETHERNET MODEL



Figure A

1 Laser Beam Output Window



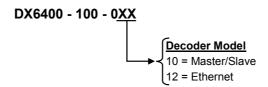


Figure B

- 1 Programming Keypad
- 2 TX Data LED (Green)
- (3) Phase On LED (Yellow)
- 4 Power On LED (R
- (5) LCD Display

- Figure C
- 1 RJ45 Modular Connector for Ethernet Interface
- 2 Lonworks 9-pin Female Connector
- (3) Main/Aux. Interface 26-pin D-Sub Male Connector

Available Models:



Technical Features:

ELECTRICAL FE	ELECTRICAL FEATURES			OPTICAL FEATURES	
Supply Voltage	15 - 30 Vdc		Light Receiver	Avalanche photodiode	
Power	18 W typical		Wavelength	630 to 680 nm	
Consumption	24 W Max. (includi	ng startup current)	Safety Class	Class 2-EN 60825-1;	
Communication	Main (isolated)	Baud Rate		Class II-CDRH	
Interfaces	RS232		Laser Control	Security system to turn laser	
	RS485 full-duplex	1200 to 115200		off in case of motor slow down	
	RS485 half-duplex		READING FEATURES		
	20 mA C.L. (INT-30 with C-BOX 100 only)	19200	Scan Rate	500-750 scans/s for each scan line (1000 – 1500 total)	
	Auxiliary				
	RS232	1200 to 115200	Max. Resolution		
	Other		Max. Read. Distance		
	Lonworks	1,25 Mb/s	Max. Read. Width	(see reading diagram)	
	Ethernet	10 or 100 Mb/s	Max. Depth of Field		
Inputs					
Ext. Trigger 1,					
3 aux. digital	(optocoupled NPN	or PNP)	USER INTERFACE		
inputs			LCD Display	2 lines by 16 characters LCD	
Outputs			Keypad	3 keys	
3 software			LED Indicators	Power ON (red color)	
programmable digital outputs	(optocoupled)			Phase ON (yellow color) TX Data (green color)	



SOFTWARE FEATUR	RES	ENVIRONMENTAL	FEATURES	
Readable Codes	Interleaved 2/5 Code 39 standard	Operating Temperature	0° to +40 °C (+32 to +104 °F)	
	Codabar Code 128	Storage Temperature	-20° to +70 °C (-4° to +158 °F)	
	EAN 128	Humidity	90% non condensing	
	Code 93 (standard & full ASCII) EAN/UPC	Vibration Resistance	IEC 68-2-6 test FC 1.5 mm; 10 to 55 Hz	
Code Selection	Up to 10 codes during one		2 hours on each axis	
	reading phase	Shock Resistance	IEC 68-2-27 test EA	
Headers and	Up to 128-byte headers and		30 G; 11 ms	
Terminators	128-byte terminators		3 shocks on each axis	
Operating Modes	On Line, Automatic, Test, PackTrack	Protection Class	IP50	
Config. Mode	Genius™ utility program	PHYSICAL FEATURES		
		Dimensions mm	225.9 x 149.8 x 116.8	
		(inch)	(8.89 x 5.90 x 4.60)	
		Weight	2.1 Kg (4.62 lbs.)	

Accessories:

Name	Description	Part Number
CAB-6011	Cable to C-BOX100 1 m	93A051221
CAB-6012	Cable to C-BOX100 2 m	93A051222
CAB-6015	Cable to C-BOX100 5 m	93A051223
C-BOX 100	Passive connection box	93ACC1510
INT-30	20 mA C.L. interface board for C-BOX 100	93A151022
C-BOX 300	Profibus-DP connection box	93A301000
C-BOX 310	Profibus-DP connection box with display	93A301030
C-BOX 400	Devicenet connection box	93A301010
C-BOX 410	Devicenet connection box with display	93A301040
PWR-120	Power unit 110/230 V AC - 24 V DC	93ACC1530
BTK-6000	Terminator kit (5 pcs)	93ACC1710
PG6002	Single unit power supply – US	93ACC1718
PG6001	Single unit power supply – UK	93ACC1719
PG6000	Single unit power supply – EU	93ACC1720
FBK-6000	Fast bracket kit (2 pcs)	93ACC1721
MEP-542	Photocell kit – PNP	93ACC1727
MEP-543	Photocell kit – NPN	93ACC1728

Electrical Connections:

The DX6400 Ethernet reader provides a 26-pin male D-sub connector for connection to power supply and input/output signals.

An Ethernet connector is used for connection to the remote Host (for ex. Remote PC connected via Internet), while a local Lonworks 9-pin female connector connects the Ethernet master to the first slave reader of the system.

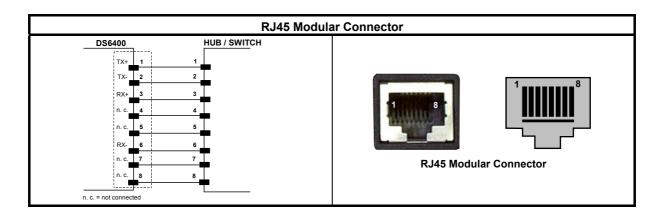
The details of the connector pins are indicated in the following table:



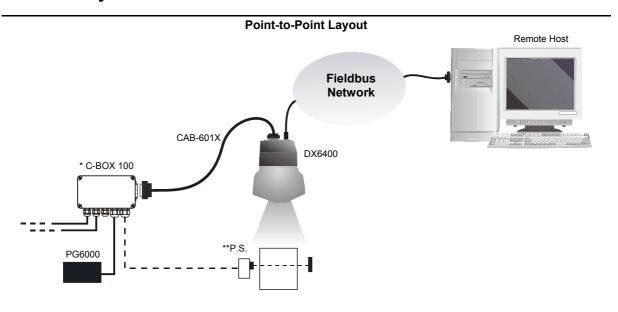
	26-pin D-Sub Connector Pinout						
Pin	Name		Function				
1	Shield	Internally	connected by capacitor to	chassis			
20	RXAUX	Receive d	ata of auxiliary RS232 (re	ferred to GND)			
21	TXAUX	Transmit	data of auxiliary RS232 (re	eferred to GND)			
8	OUT 1+	Configura	ble digital output 1 – posit	ive pin			
22	OUT 1-	Configura	ble digital output 1 – nega	ative pin			
11	OUT 2+	Configura	ble digital output 2 – posit	ive pin			
12	OUT 2-	Configura	ble digital output 2 – nega	ative pin			
16	OUT 3A	Configura	ble digital output 3 – pola	rity insensitive	(1	• • • • • • • • 9)	
17	OUT 3B	Configura	ble digital output 3 – pola	rity insensitive	\10 ●	• • • • • • • 18/	
18	EXT_TRIG A	External t	rigger (polarity insensitive)	\19	• • • • • • • 26	
19	EXT_TRIG B	External t	rigger (polarity insensitive)			
6	IN2A	Input sign	al 2 (polarity insensitive)		26-p	oin male D-sub Connector	
10	IN2B	Input sign	al 2 (polarity insensitive)				
14	IN3A	Input sign	al 3 (polarity insensitive)				
15	IN4A	Input signa	al 4 (polarity insensitive)				
24	IN_REF	Common r	reference of IN3 and IN4 (po	olarity insensitive)			
9, 13	VS	Supply vo	ltage – positive pin				
23, 25, 26	GND	Supply vo	Itage – negative pin				
Pin	RS23	32	RS485 Full-Duplex	plex	20 mA C.L. (INT-30 with C-BOX 100 only)		
2	TX		TX485+ RTX485+				
3	RX		RX485+				
4	RTS	3	TX485- RTX485-			see INT-30 instructions	
5	CTS	3	RX485-				
7	GND_I	SO	GND_ISO	GND_ISO			

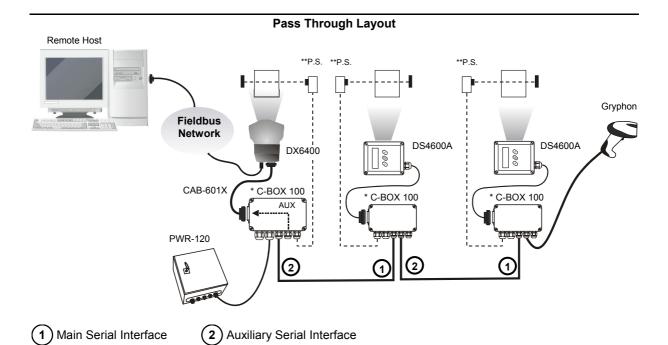
 $^{^{\}star}$ $\,$ For 20 mA C.L. connections, GND is the same of the scanner power supply.

	9-pin Lonworks Connector Pinout						
Pin	Name	Function					
1	Shield	Cable shield					
9	VS	Supply voltage – positive pin					
2	GND	Supply voltage – negative pin	5 1				
6	VS_I/O	Supply voltage of I/O circuit	(00000)				
3	Ref_I/O	Reference voltage of I/O circuit	\0000/				
4	SYS_ENC_I/O	System signal	9 6				
5	SYS_I/O	System signal	9-pin female Local Lonworks Connector				
7	LON A	Lonworks line (polarity insensitive)	·				
8	LON B	Lonworks line (polarity insensitive)					



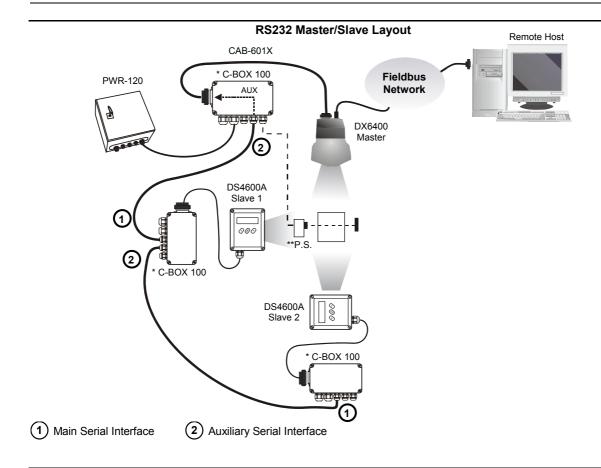
Connectivity:



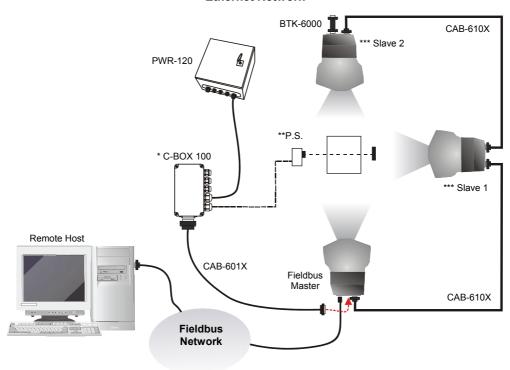


- * C-BOX 100 can support up to 2 DX6400 readers. Please contact Datalogic USS Technical Support, if your application requires a multi-slave network.
- ** P.S. (Presence Sensor) connected to External Trigger input.





Ethernet Network



- * C-BOX 100 can support up to 2 DX6400 readers. Please contact Datalogic USS Technical Support, if your application requires a multi-slave network.
- ** P.S. (Presence Sensor) connected to External Trigger input.
- *** The Slave scanners are Master/Slave models which allow Lonworks network propagation.



C-BOX 100 Pinout for DX6400:

The table below gives the pinout of the C-BOX 100 terminal block connectors. Use this pinout when the DX6400 reader is connected in a network by means of the C-BOX 100:

	C-BOX 100 Terminal Block Connectors						
	Power						
1, 3, 5	VS						
2, 4, 6	GND						
7, 8	EARTH GROUND						
20, 40	Reserved						
		Inputs					
27	EXT TRIG A (polarity in						
28	EXT TRIG B (polarity in						
29	IN 2A (polarity insensitive						
30	IN 2B (polarity insensitive	,					
31, 33	IN 3A (polarity insensitive	,					
32, 34	IN 4A (polarity insensitive	,					
36	IN 3B/IN 4B Reference	(polarity insensitive)					
		Outputs					
21	OUT 1+						
22	OUT 1-						
23	OUT 2+						
24	OUT 2-						
25	OUT 3A (polarity insensi	,					
26	OUT 3B (polarity insensi	,					
		Auxiliary Interfac	ce				
35	TX AUX						
37	RX AUX						
38, 39	GND						
	Main Interface						
	RS232	RS485 Full-Duplex	RS485 Half-Duplex	20 mA C.L. (with INT-30 only)			
11, 15	TX 232	TX 485+	RTX 485+				
12, 16	RTS 232 TX 485- RTX 485-						
17	RX 232 RX 485+ see INT-30						
18	CTS 232 RX 485- see intr-30 instructions						
10, 14, 19	SGND Main Isolated	SGND Main Isolated	SGND Main Isolated				
9, 13		RS485 Cable Shield	RS485 Cable Shield				

Mechanical Installation:

The DX6400 reader can be positioned and installed in the best way possible as a result of the Step-A-HeadTM feature. Thanks to the separation between Head and Base, you can modify the orientation of the decoder base, and therefore display-keypad and connector panels, while keeping the optic head in the correct reading position. The reading head and the decoder base can be rotated independently from each other allowing the installation even in the most critical locations.

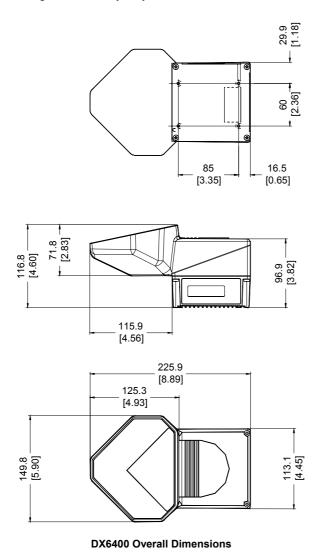
To rotate the head follow the given procedure:

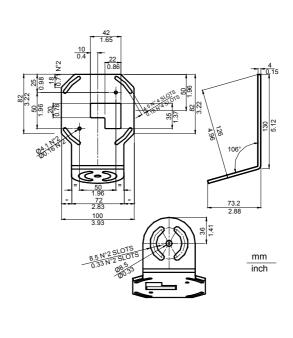
- 1. detach the head from the base by unscrewing the four fixing screws;
- 2. rotate the head in the desired position;
- 3. loosen but don't remove the two screws on top of the head;
- affix the head onto the base carefully aligning the four fixing screws and progressively tightening them about half-way;
- 5. completely tighten the two screws on top of the head;
- 6. completely tighten the four fixing screws.



Step- A-Head™ Feature

The following diagrams give the overall dimensions of the reader standard model, oscillating mirror model and mounting bracket. They may be used for their installation:

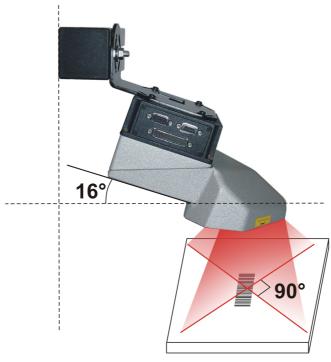




ST-237 Mounting Bracket Overall Dimensions

Typical Installations:

Mount the scanner using the ST-237 mounting bracket which assures an angle of 16°, as indicated in the figure below, in order to obtain an angle of 90° between the two scan lines. This guarantees an omni directional reading of the barcode, if the code label satisfies the ACR3™ conditions (see Scanner Reference Manual for details).



DX6400 Mounting Position

FLASH™ Dynamic Focus:

The DX6400 has an innovative linear motor designed to control the focus position of the scanner via software. This dynamic system, called $\mathsf{FLASH}^\mathsf{TM}$, is able to move the focus position rail to rail, from the minimum position to the maximum position.

The FLASH™ functionalities (i.e. the driving modes of the linear motor) are programmed via the Genius™ software tool and can operate in the following modes:

- Fixed mode: the focus is set in the wished position via software (expressed in cm/inches);
- <u>Continuous</u> mode: the focus position is continuously running from a minimum position to a maximum position with a defined frequency;
- <u>Triggered</u> mode: the focus position can be set depending on the received external input (photocell, barrier, serial message..);
- D-Flash™ mode: the focus position ca be set depending on the measured distance between the scanner and the scanned object. This is the most innovative and flexible function, that makes possible different software implementations. The D-Flash™ development has been based on the minimum distance detected. Thus, it can solve the main part of the applications. Further developments of D-Flash™ will be provided according to the specific application needs.

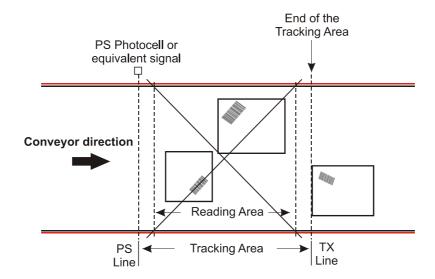


PackTrack™:

PackTrack™ is a patented operating mode for Datalogic Omni-Directional Reading Stations used to read and correctly assign codes read on different packs when placed in the scanner Reading Area at the same time. Working in PackTrack™ mode requires the presence of an encoder and a presence sensor to track the moving packs.

All PackTrack™ functionalities are programmed via the Genius™ tool (refer to the Genius™ Help On-Line for details).

In fact, in the following example, the codes of two or more consecutive packs are found at he same time in the scanner reading area. Therefore, the condition occurs where, in the sequence of the two packs, the code of the seconds pack is read first, just before the code of the previous pack. A system without PackTrack™ would assign the code of the second pack to first pack and vice versa, thus causing a gross error in sortation.

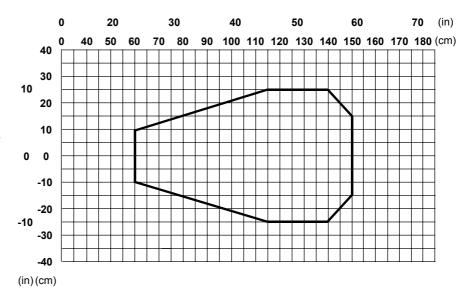




Reading Diagrams:

In the following reading diagrams (y = 0) corresponds to the center of the crossing laser beams.

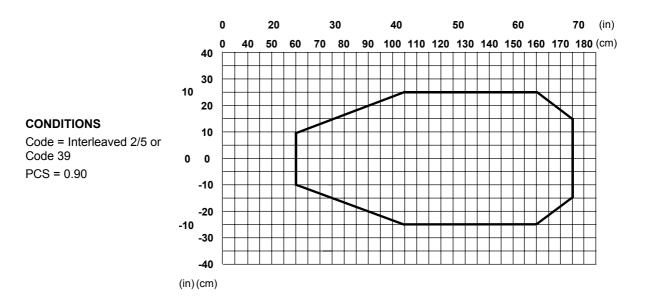
DX6400-100-0XX - Resolution: 0.38 mm/15 mils



CONDITIONS

Code = Interleaved 2/5 or Code 39 PCS = 0.90

DX6400-100-0XX - Resolution: 0.50 mm/20 mils



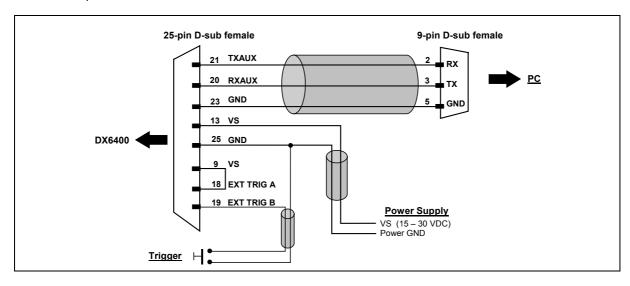


User Interface:

RS232 PC-side connections						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1	13			
9-pin male connector		25-pin male connector				
Pin	Name	Pin	Name			
2	RX	3	RX			
3	TX	2	TX			
5	GND	7	GND			
7	RTS	4	RTS			
8	CTS	5	CTS			

How To Build A Simple Interface Test Cable:

The following wiring diagram shows a simple test cable including power, external (push-button) trigger and PC RS232 COM port connections.



Safety Precautions:



The scanner is classified as a Class 2 laser product according to EN 60825-1 regulations and as a Class II laser product according to CDRH regulations.

Disconnect the power supply when opening the device during maintenance or installation to avoid exposure to hazardous laser light.

There is a safety device which allows the laser to be switched on only if the motor is rotating above the threshold for its correct scanning speed.

The laser beam can be switched off through a software command (see also the Genius™ Help On-Line).



Laser Safety Label



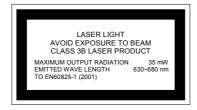
Warning and Device Class Label



Device Identification Label



The laser diode used in this device is classified as a Class 3B laser product according to EN 60825-1 regulations and as a Class IIIb laser product according to CDRH regulations. As it is not possible to apply a classification label on the laser diode used in this device, the following label is reproduced below:



Laser Diode Class Label

Any violation of the optic parts in particular can cause radiation up to the maximum level of the laser diode (35 mW at $630 \sim 680 \text{ nm}$).

Power Supply

- This product is intended to be installed by Qualified Personnel only.
- All DX6400 Models:

This device is intended to be supplied by a UL Listed Power Unit marked "Class 2" or LPS power source which supplies power directly to the scanner via the 25/26-pin connector.

DATALOGIC S.p.A., Via Candini, 2 40012 - Lippo di Calderara Bologna - Italy



dichiara che declares that the déclare que le bescheinigt, daß das Gerät declare que el

DX6400-XXX-XXX, Laser Scanner

e tutti i suoi modelli and all its models et tous ses modèles und seine modelle y todos sus modelos

sono conformi alle Direttive del Consiglio Europeo sottoelencate: are in conformity with the requirements of the European Council Directives listed below: sont conformes aux spécifications des Directives de l'Union Européenne ci-dessous: den nachstehenden angeführten Direktiven des Europäischen Rats: cumple con los requisitos de las Directivas del Consejo Europeo, según la lista siguiente:

00/000/EEO EMO D:		00/04/550 00/00/550	
89/336/EEC EMC Directive	е	92/31/EEC, 93/68/EEC	emendamenti successivi
	and		further amendments
	et		ses successifs amendements
	und		späteren Abänderungen
	V		succesivas enmiendas

73/23/ECC Low Voltage Directive

Basate sulle legislazioni degli Stati membri in relazione alla compatibilità elettromagnetica ed alla sicurezza dei prodotti. On the approximation of the laws of Member States relating to electromagnetic compatibility and product safety. Basée sur la législation des Etats membres relative à la compatibilité électromagnétique et à la sécurité des produits. Über die Annäherung der Gesetze der Mitgliedsstaaten in bezug auf elektromagnetische Verträglichkeit und Produktsicherheit entsprechen.

Basado en la aproximación de las leyes de los Países Miembros respecto a la compatibilidad electromagnética y las Medidas de seguridad relativas al producto.

Questa dichiarazione è basata sulla conformità dei prodotti alle norme seguenti: This declaration is based upon compliance of the products to the following standards: Cette déclaration repose sur la conformité des produits aux normes suivantes: Diese Erklärung basiert darauf, daß das Produkt den folgenden Normen entspricht: Esta declaración se basa en el cumplimiento de los productos con las siguientes normas:

EN 55022, August 1994: LIMITS AND METHODS OF MEASUREMENTS OF RADIO DISTURBANCE CHARACTERISTICS OF INFORMATION TECHNOLOGY EQUIPMENT (ITE)

EN 61000-6-2, October 2001: ELECTROMAGNETIC COMPATIBILITY (EMC).

PART 6-2: GENERIC STANDARDS - IMMUNITY FOR INDUSTRIAL ENVIRONMENTS

EN 60950-1, December 2001: INFORMATION TECHNOLOGY EQUIPMENT - SAFETY -

PART 1: GENERAL REQUIREMENTS

EN 60825-1, June 1994: SAFETY OF LASER PRODUCTS –

Amendments A11 (1996), A2 (2001) PART 1: EQUIPMENT CLASSIFICATION, REQUIREMENTS AND USER'S GUIDE

Lippo di Calderara, 22/03/2005

Ruggero Cacioppo Quality Assurance Laboratory Manager

Ruggers Cocioffs