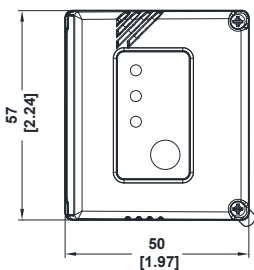
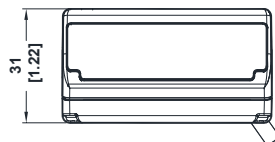
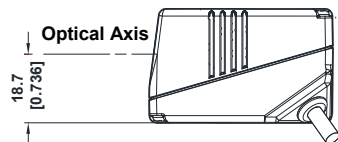
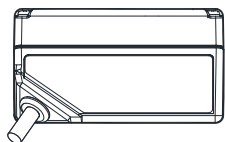
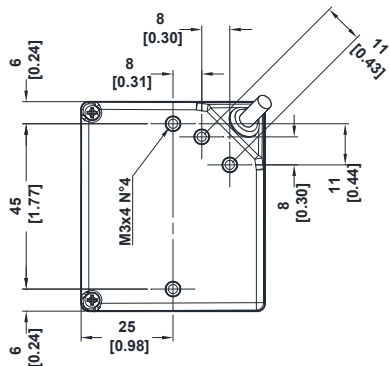


If you do not use the mounting bracket and screws in the packaging, to avoid damage to the product case and internal components, make sure that mounting screws do not exceed the threaded hole depth of 4 mm.



Mechanical Dimensions

Patents

This product is covered by one or more of the following patents:

US Patents: 5,311,000; 5,481,098; 5,929,421; 5,992,740; 6,098,883; 6,260,764; 6,443,360 B1; 7,075,663 B2.

European Patents: 789,315 B1; 926,620 B1; 997,760 B1; 1,217,571 B1; 1,804,089 B1.

Chinese Patent: ZL200680050007.8.

Additional patents pending.

821001864 (Rev. D)



TC1200-1X00

CCD Scanner

Quick Reference Guide



The TC1200-1X00 is a linear CCD Scanner for OEM applications. It is available in two different versions:

Model	Description	Order Number
TC1200-1000	CCD Reader, RS232	939501108
TC1200-1100	CCD Reader, USB	939501109

Technical Specifications

Power supply	5 Vdc \pm 5%
Consumption	350 mA; 1.75 W
Interfaces	RS232, USB
Max Scans/sec	320
Max resolution	0.076 mm (3mils)
Readable codes:	EAN/UPC; Code 39, Code 32; Code 128, GS1-128, ISBT 128; Interleaved, Standard, and Industrial 2 of 5; Codabar, ABC Codabar; GS1 Databar (Omnidirectional, Limited, Expanded); Code 93; Code 11; MSI; Plessey

Default Configuration

RS232 Interface	RS232, 9600, N, 8, 1, ACK/NAK disabled, inter-character delay disabled, Enable Character = E, Disable Character = D
Reading Parameters	Illumination Mode = Triggered, Operating Mode = On Line, Phase Off Event = Trigger Stop, LED Indication = On Decode, Label Programming Mode enabled, Exposure Mode = Continuous, Reading Condition = Auto, Positive Foreground/Background
USB Interface	USB-COM, ACK/NAK disabled, inter-character delay disabled, Enable Character = E, Disable Character = D
Reading Parameters	Illumination Mode = Triggered, Operating Mode = Serial On Line, Serial Start = STX, Serial Stop = ETX, Phase Off Event = Trigger Stop, LED Indication = On Decode, Label Programming Mode enabled, Exposure Mode = Continuous, Reading Condition = Auto, Positive Foreground/Background
Common Data Format	Data Transmission = On Decode, Prefix (Header) = <NUL>, Suffix (Terminator) = <CR>, Code ID disabled, No Read Character = <CAN>, Code Verifier disabled, Case Conversion disabled
Code Selection	<ul style="list-style-type: none"> Code EAN-8, EAN-13, UPC-A, UPC-E: without Add-On, Check Digit transmitted, no conversions
Enabled codes	<ul style="list-style-type: none"> Code 39: length: variable 2 - 50 Code 128: Check Digit not transmitted, length: variable 1 - 80 GS1-128: transmit labels in GS1-128 data format
Other Parameters	Digital Outputs disabled, Power Save disabled, no Advanced Formatting

Electrical Connections

9-pin connector		
1	VCC	+5 Vdc
2	GND	power ground
3	RX	receive data
4	TX	transmit data
5	OUT1 +	output 1, positive
6	OUT 1/2 -	output 1/2 negative
7	OUT2 +	output 2, positive
8	EXT-TRIG +	external trigger, positive
9	EXT-TRIG -	external trigger, negative
USB Type A connector		
1	VCC	+5Vdc
2	DATA-	USB Data, negative
3	DATA+	USB Data, positive
4	GND	power ground

Led Status

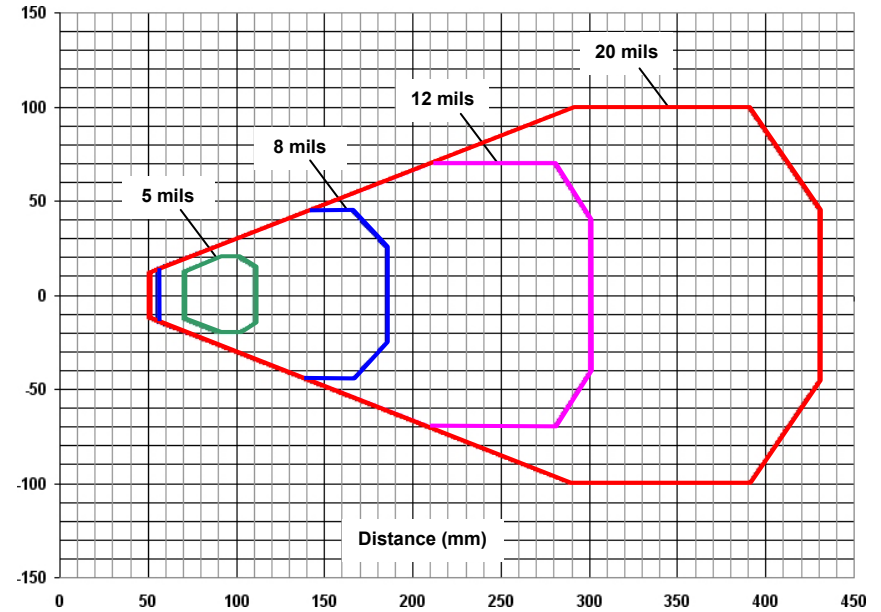
LED	State
POWER	ON = Power ON
	OFF = Power OFF
GOOD	ON = Good Read
	OFF = No Read
TRIGGER	ON = External trigger ON
	OFF = External trigger OFF

Configuration

For detailed information on the TC1200 programmability and complete parameter list, please refer to the TC1200 Reference Manual available on the website at: www.automation.datalogic.com.

Reading Diagrams

The following diagram was obtained according to the conditions listed below. Code reading with skew angles of less than 10° may cause decreased performance due to direct light reflection.



Reading Diagram TC1200-1X00

(0,0) corresponds to the scanner output window.

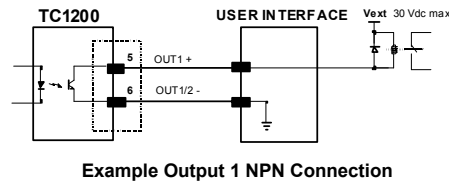
Conditions:

Static Code Reading
 Exposure Mode = Continuous
 Code = Code 39
 Quality = Grade A
 Lighting = No Ambient Light (0 Lux)
 Pitch = 0°
 Skew = 10°
 Tilt = 0°

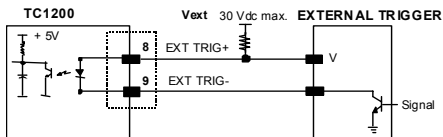
Physical Dimensions

Model	RS232	USB
Width	57 mm (2.24 inches)	
Length	50 mm (1.96 inches)	
Height	31 mm (1.22 inches)	
Weight - max. without cable	120 g. (4.2 oz.)	105 g. (3.7 oz.)

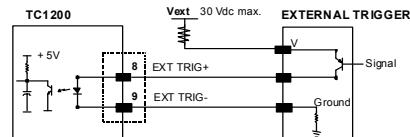
I/O Connections (RS232 model Only)



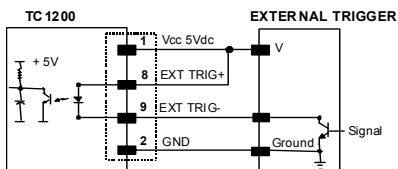
Example Output 1 NPN Connection



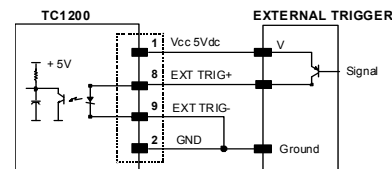
Input NPN command using external power



Input PNP command using external power



Input NPN command using TC1200 power



Input PNP command using TC1200 power

External Trigger Connections