

Programming Tool


1D/PDF code reading
puzzle SOLVER ${ }^{\text {TM }}$ Technology

RS232, Wedge, Pen

## General Description

Datalogic's TC1100 Compact CCD Reader provides an entry-level solution for many OEM applications. Due to its well-balanced mix of technical characteristics, it is perfect for integration in custom equipment, setting a new standard in this product class.

The TC1100 has excellent reading capabilities and scans very close to the output window with a wide reading area and extended DOF. Its high-performance CCD camera ( 3,648 pixels), which executes 270 scans/sec, combined with PUZZLE SOLVER ${ }^{\text {TM }}$ technology, allows fast and accurate reading even with damaged or poor quality codes. In addition, its compact dimensions and light weight help reduce the overall dimensions and weight of the complete system.
The TC1100's ambient light immunity (100,000 lux), together with its reading capabilities permits installation in any environment, reducing costs. Furthermore, due to the absence of moving parts, the TC1100 grants a MTBF of 240,000 hours (Mean Time Between Failures) drastically reducing maintenance costs. The "All in One" communication system (RS232, Wedge and Pen Emulation) and optocoupled Input and Output lines permit easy and flexible interfacing with any type of controller. The optional $80^{\circ}$ deflection mirror for side reading installations reduces the overall space needed, making even contact reading possible. The TC1100 can aslo be programmed by software commands sent via RS232 or with the intuitive configuration software DL Sm@rtSet ${ }^{\text {TM }}$.

## Features

$>$ Excellent reading capabilities
$>$ Enhanced code reconstruction with the Puzzle Solver ${ }^{\text {TM }}$ technology
$>$ PDF417 bar code decoding (model TC1100-0200 only)
$>$ Flexible interface "All in One" architecture: RS232, Wedge and Pen emulation
> DL Sm@rtSet: Windows-based programming tool
> Lightweight
$>$ Compact dimensions

## Applications

$>$ Access control systems
$>$ Chemical and biomedical analysis machines
$>$ Automatic Tape Libraries (ATL)
$>$ Self Service Systems (ATM, Kiosk)
$>$ Game automation (Lotto, Lottery, etc.)
$>$ Film processing machines


## Specifications

## Dimensions

## ELECTRICAL CHARACTERISTICS

| POWER SUPPLY | $5 \mathrm{Vdc} \pm 5 \%$ |
| :--- | :--- |
| POWER CONSUMPTION | 1.5 W |

## MECHANICAL CHARACTERISTICS

DIMENSIONS

CASE MATERIAL

## PERFORMANCE

sCAN RATE
READING RANGE
SENSOR
DECODER TYPE
MAX RESOLUTION
READABLE CODES
(stacked code version)
INTERFACES
INPUT SIGNAL
OUTPUT SIGNAL
LED INDICATOR
PROGRAMMING METHOD
Automatic (via RS232)
DL Sm@rtSet
ENHANCED FEATURES
CABLE LENGTH
CONNECTOR TYPE
$63 \times 60.5 \times 27 \mathrm{~mm}\left(2.48^{\prime \prime} \times 2.38^{\prime \prime} \times 1.06^{\prime \prime}\right)$ for scan engine $70.7 \times 68.6 \times 30.5 \mathrm{~mm}$
( $2.70^{\prime \prime} \times 2.78^{\prime \prime} \times 1.20^{\prime \prime}$ ) for complete scanner ABS (complete scanner)

270 scans/sec.
35 to 305 mm
CCD Solid state (3648 pixels)
Built-in
0.076 mm (3mils)

2/5 family, Code 39, EAN/UPC, EAN128, Code 128, Code 93, CODABAR, TELEPEN, PLESSEY, Code MSI, Code Delta IBM, Code 11, Code 16K, Code 49
PDF417, CODABLOCK
RS232, Wedge, Pen emulation
Trigger (optocoupled)
Good Read (optocoupled)
'Power On'; 'Good Read'

SW commands through the serial port
Windows configuration program
Puzzle Solver ${ }^{\text {TM }}$
100 cm (39.3 in.)
25 pins, D-Shell female

## ENVIRONMENT

OPERATING TEMPERATURE
STORAGE TEMPERATURE
AMBIENT LIGHT IMMUNITY
HUMIDITY
VIBRATION RESISTANCE

SHOCK RESISTANCE

0 to $50^{\circ} \mathrm{C}\left(32\right.$ to $\left.122^{\circ} \mathrm{F}\right)$
-20 to $70^{\circ} \mathrm{C}\left(-4\right.$ to $\left.158{ }^{\circ} \mathrm{F}\right)$
Up to 100.000 lux
90\% non-condensing
IEC 68-2-6 test FC $1.5 \mathrm{~mm} ; 10$ to $55 \mathrm{~Hz} ; 2$ hours on each axis (complete scanner)
IEC 68-2-27 test EA $30 \mathrm{G} ; 11 \mathrm{~ms} ; 3$ shocks on each axis (complete scanner)


## Reading Diagrams



Reading Area for Linear Codes


Reading Area for PDF417 Codes

