

Laser Barcode Scanners



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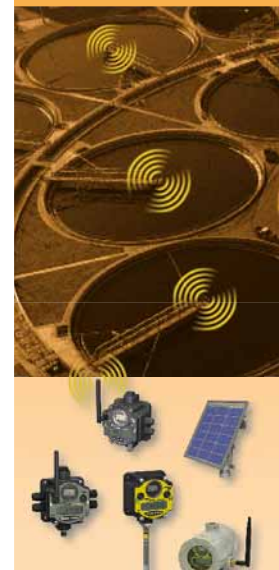
Sensors

- Presence/Absence Detection
- Foreground & Background Suppression
- GO/NO GO Inspection
- Gating and Triggering
- Parts Counting
- Level and Distance Measurement
- Positioning
- Contrast and Colour Sensing
- Vehicle Detection (Radar, Ultrasonic & Magnetic Technology)



Vision

- Vision Sensors with Onboard User Interface
- Pattern Recognition
- Traceability (Barcode, Datamatrix and Text Reading)
- OCR/OCV
- Complex Part Inspection
- Part Orientation
- Assembly Verification
- Colour Inspections



Wireless I/O

- Slip Ring Replacement
- Tank Farm Monitoring
- Livestock Environmental Monitoring
- Water and Wastewater Treatment
- HVAC Remote Monitoring
- Traffic Monitoring & Control
- Remote Sensing in Process Automation
- Cable Replacement
- ATEX Approved Solutions



Lighting & Indicators

- Bin & Part Picking
- Error/Mistake Proofing
- Pick-to-Light & Put-to-Light
- Operator Guidance
- Call for Parts
- Incorrect Pick Signal
- Remote Start/Stop Indication
- Work Station Lighting
- Mobile Equipment Work Lights
- Production Machine and Cabinet Lighting



Machine Safety

- Safety Light Screens
- Ergonomic Two-Hand Control Devices
- Safety Modules
- Emergency Stop Devices
- Safety Interlocking
- Laser Scanners for Safety Applications
- Programmable Safety Controllers
- Enabling Devices

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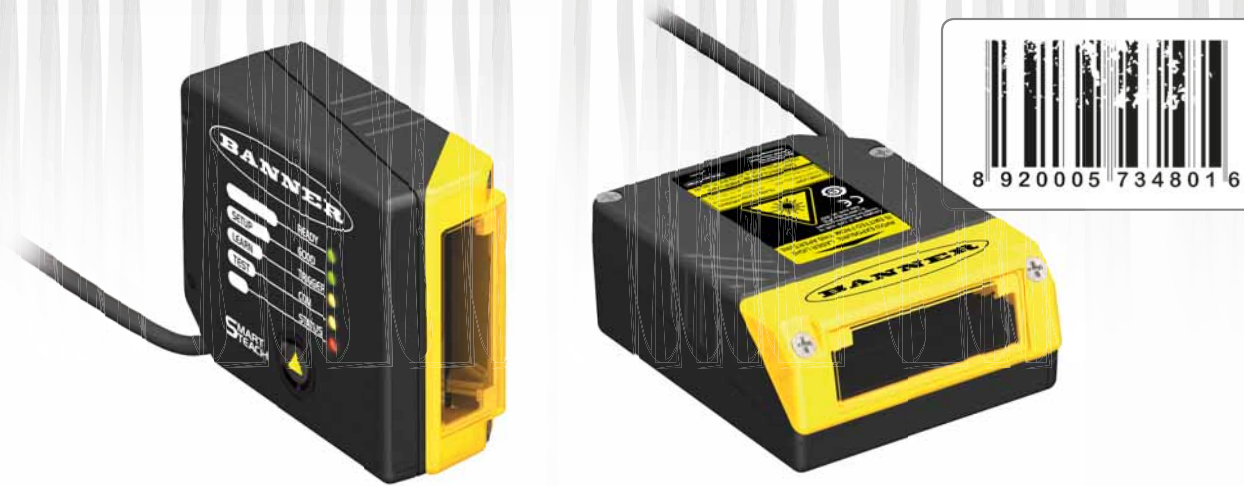
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Laser Barcode Scanners



Improved reading rate

- Code rebuilding algorithm combines information from multiple scans to reconstruct the information from a damaged code

Intuitive setup

- Essential setup and diagnostic operations using SMART-TEACH push button and LED indicators

Advanced functions

- GeniusPlus software and proprietary intra-sensor communication protocol eliminate the need for external multiplexer in multi-sensor setup

Barcode size	Reading Range (mm)												Model	Type
	50	100	150	200	250	300	350	400	450	500	550	600		
0.12 mm (5 mils)	Models listed below use a single line scan													
0.15 mm (6 mils)													TCNM-AD-1200	Standard resolution
0.2 mm (8 mils)													TCNM-AD-1204	High performance
0.3 mm (12 mils)													TCNM-AD-2200	High resolution
0.5 mm (20 mils)													TCNM-AD-2204	High resolution, High performance
0.2 mm (8 mils)													TCNM-EX-0200	Short range
0.25 mm (10 mils)													TCNM-EX-1200	Medium range
0.35 mm (14 mils)													TCNM-EX-2200	Long range
0.5 mm (20 mils)													Models with raster scan are also available	



Correct Label Verification



Lot control and traceability for a pharmaceutical manufacturer

Product Identification



Sorting in an automated warehouse

Printing Verification



Quality and content control in the printing industry

Features

- IP65 rugged industrial housing
- Supply Voltage: 10 – 30 VDC
- Class 2 Laser
- 500 – 1000 scans/second
- SMART TEACH

Readable codes

- Interleaved 2 of 5
- Code 39, Code 93
- Code 128/GS1-128/ISBT 128
- EAN-13 (UPC-A), EAN-8, UPC-E
- Codabar
- Pharmacode
- GS1 DataBar Omnidirectional/Limited/Expanded
- Plessey