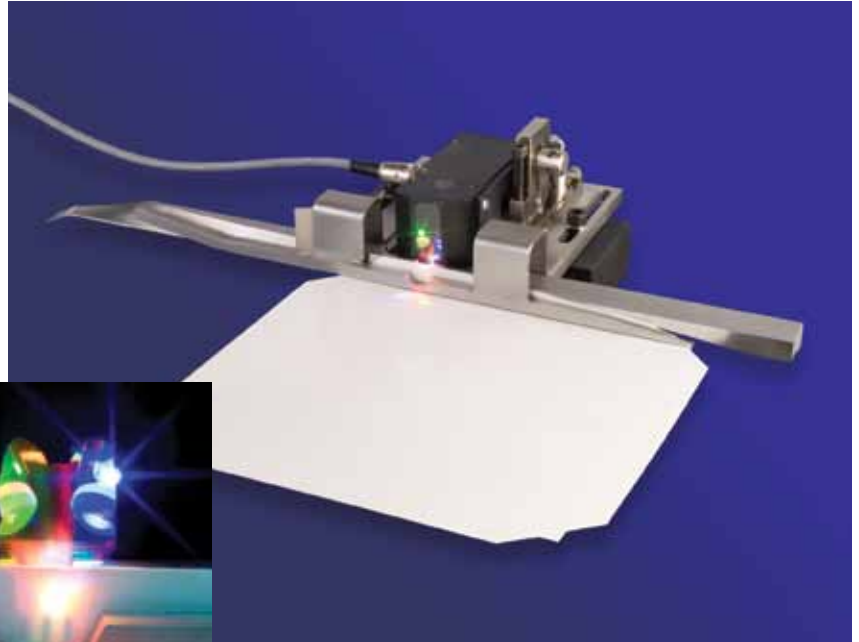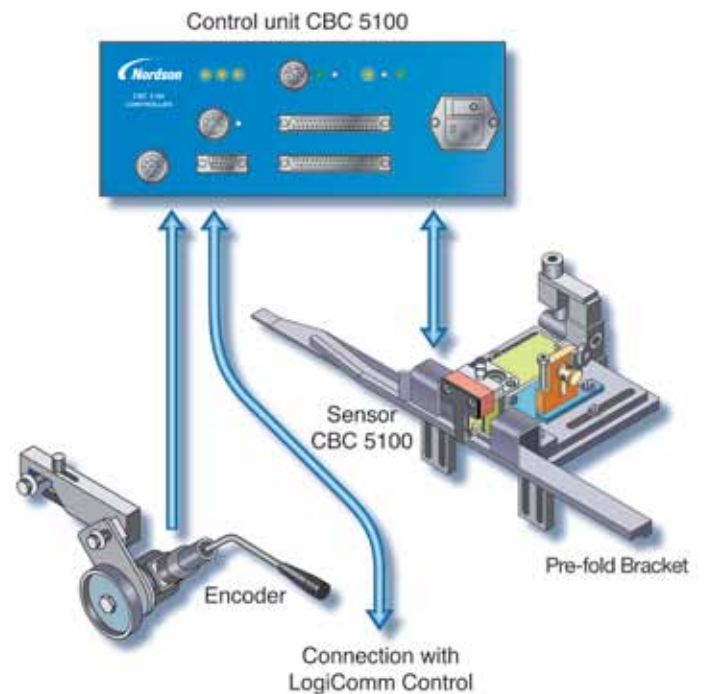# CBC 5100
Color Bar Code Reader

Integrated color bar code reader validates code accuracy in-line, real-time.

- Accurately read variety of color bar code formats
- Teach mode simplifies set-up and changeover
- Detect match, no match or no read

The Nordson® CBC 5100 color bar code reader integrates easily into folding carton lines to verify accuracy of numerous codes including standard code 1-2-3, Bobst code and Pharma code. The reader can identify missing colors, mixed lots and die-cutting misalignment (print-to-cut registration). A simple teach mode stores a known good code against which each production code is compared. Faulty code detection can be programmed for machine stop, product ejection or product marking. Integrated air-purge function keeps sensor lens dust-free to minimize cleaning related downtime.

CBC 5100 color bar code readers are just one of the Nordson LogiComm® verification and detection sensors. The Logi-Comm sensor family facilitates ease of integration into folder-gluers as well as simplified day-to-day operation via an intuitive touch-screen interface. Integrated carton verification improves production efficiency and product quality.

Control unit CBC 5100

Sensor CBC 5100

Pre-fold Bracket

Encoder

Connection with LogiComm Control

Nordson

CBC 5100 Color Bar Code Reader

Standard Specifications

Color Types	Full density printed colors on standard cartons[1]
Bar Height	4 mm (0.16 in.) minimum [5 mm (0.2 in.) for print-to-cut registration]
Bar Placement	7 mm (0.28 in.) minimum distance from bottom of sensor housing to reading line
Orientation	Picket fence only
Number of Bars	Max. 32
Maximum Production Rate	180,000 pieces per hour
Minimum Bar Width	0.5 mm (0.02 in.)
Minimum Gap Width	0.5 mm (0.02 in.)
Sensor Mounting Angle	90º
Skew Angle 90º	±5 degrees maximum
Pitch Angle 90º	±5 degrees maximum
Distance to Substrate	7mm ±2mm (0.28 in. ±0.08 in.)
Minimum Quiet Zone	5mm (0.2 in.) recommended
Mounting	Pre-fold bracket included
Operating Temperature	0° to 40° C (32° to 104° F)
Enclosure Rating	
Sensor and Control Box	IP40
Dimensions	
Sensor	120 x 50 x 50 mm (4.72 x 1.97 x 1.97 in.)
Control Box	330 x 110 x 180 mm (12.99 x 4.33 x 7.09 in.)
Weight	
Sensor	305 grams (10.76 ounces)
Control Box w/dual magnet mount	~3500 grams (123.46 ounces)
Interface	LogiComm® Smart Verification Sensor[2]
Light Source	LEDs
Input Power	85 – 264 VAC 50-60Hz 3.15A Fused (consumption max. 0.5A)
Sensor Life	20,000 hours
Print-to-Cut Registration Tolerance	0.1 mm resolution; adjustable from 0.1 to 10mm

[1]*Not for metallic foil cartons*

[2]*LogiComm verification system required for set-up, operation and tracking; LogiComm verification system sold separately.*

CE

ISO 9001
DNV Certification, Inc.
REGISTERED FIRM

Nordson