LogiComm® Sensor and Barcode Reader Family

Fully integrated, in-line verification and detection of a wide range of production parameters

Nordson

Nordson…when quality really counts

The Nordson® family of sensors and readers helps improve product quality and production efficiency. As part of an online, real-time inspection process, Nordson systems can monitor, among other things:

- **hot melt and/or liquid adhesive pattern and placement**
- **printed code accuracy**
- **substrate positioning and specifications**

The easy-to-program systems can simultaneously verify and detect numerous quality parameters. Unacceptable products can be automatically pushed, marked or ejected. And, online tracking and printed reports provide documentation of overall production quality.

	Sensor		Sensor Technology	Typical Applications	Mounting Options	Specifications
HOT MELT	HD100		• High-speed infrared sensor • Senses presence and placement of hot melt adhesives	• Folding Carton • Clear Box • Bookbinding	• Folding carton bracket assembly • Drop bar sensor assembly (w/10 m cable)	Sensing Distance: 10-50 mm Sensing Area: 10-23 mm Response Time: 1-2 ms Sensor Dimensions: 18 x 28 x 106 mm Connection: 7 pin mini DIN Pushbutton & remote calibration One Output/Cal LED
	HD80		• Medium-speed infrared sensor with a longer sensing distance • Senses presence and placement of hot melt adhesives	• Bag & Sack • Up-facing applications	• Drop bar sensor and amplifier assembly	Sensing Distance: 50-180 mm Sensing Area: 8-17 mm Response Time: 10-12 ms Sensor Dimensions: 20 x 35 x 50 mm Connection: 9 pin Dsub (Std Sensor) Separate sensor & amplifier Multi-function amplifier interface Output LED on sensor
	HD70		• Low-speed infrared sensor • Senses presence and placement of hot melt adhesives	• Packaging	• Drop bar sensor assembly (3 cable options)	Sensing Distance: 25-100 mm Sensing Area: 4-13 mm (8:1) Response Time: 25 ms Sensor Dimensions: 18 x 91 mm Connection: 5 pin mini-DIN Pushbutton & remote calibration Teach/Cal pushbutton Power/Cal & output LED

LIQUID ADHESIVE	GD200 (S&F versions)		• Photo-spectrometer
			
			• Ultra high-speed visible light sensor detects presence and position of liquid adhesives
				• Folding Carton (S)
				
				• Envelope (F)
				
				• Extruded liquid adhesive
					• Folding Carton bracket assembly (with gun and photocell)	Sensing Distance: 25-28 mm
						Sensing Area: ~6 mm
						Response Time: 80 us
						Sensor Dimensions: (S) 120 x 44 x 20 mm;
						    (F) 120 x 76 x 20 mm
						Connection: (S) 8 Pin DIN;
						    (F) 9 Pin Dsub (Std Sensor)
						
						One step-keypad calibration
						Optional sensitivity adjust low/high/glue LEDs

	GD500 Smart Sensor*		• Dielectric sensor • Detects the presence and volume of liquid adhesives	• Folding Carton side seam glue wheel • Folding carton side seam beads	• 3 mounting options for wheel pots and beads	Sensor Opening: 8 mm Max Sensing Depth: 28 mm Response Time: 2 ms Sensor Dimensions: 120 x 35 x 100 mm Connection:16 Pin DIN 5 Status LEDs (Pwr, Trigger, Calibrate, Read Result)
	GD500 Corrugated		• Dielectric sensor • Detects the presence and volume of liquid adhesives	• Corrugated side seam glue wheel	• Corrugated gluing assembly with separate control box	Guide Bar Opening: 8 mm Max Sensing Depth: 45 mm Response Time: 2 ms Sensor/Bracket Dimensions: 125 x 110 x 342 mm Controller Connections: Encoder, Trigger In & Out, LC Sensor Output, Sensor Input Programmed with separate control box with keypad/LCD Interface

Smart sensors require an available corresponding smart sensor input on the LogiComm control module.

	Sensor	Sensor Technology	Typical Applications	Mounting Options	Specifications
HOT/LIQUID ADHESIVE	**GD400**	• Ultraviolet (UV) sensor • Senses UV additive in hot melt and liquid adhesives	• All adhesive bead or dot applications	• Drop bar sensor assembly	Sensing Distance: 20-100 mm Sensing Area: 2-13 mm Response Time: 200 us Sensor Dimensions: 51 x 61 x 25 mm Connection: 5 pin mini-DIN One or two-point teach Two digit display Two programming buttons Output/Program LED
BARCODE READERS	**BC5100 Smart Sensor***	• Laser scanner • Reads standard EAN and Pharma Codes	• Folding Carton mixed lot prevention	• Drop bar/photocell bracket assembly	Sensing Distance: 100-200 mm; (Pharma) 120-130 fixed Orientation: Ladder or Picket Fence Scan Rate: 2000 per second Max Line Speed: (Picket Fence) 425 m/min; (Ladder) 150 m/min Sensor Dimensions: 58 x 76 x 41 mm Connection: 15 Pin Dsub HD (LogiComm Smart Sensor) Setup/monitor thru LogiComm touch screen Settable beep output
	CBC5100 Smart Sensor*	• Optical sensor • Reads color barcodes and print-to-cut markers	• Folding Carton mixed lot prevention, print-to-cut verification, and missing color detection	• Pre-fold bracket assembly	Sensing Distance: 7 mm Min Bar Height: 4 mm (5 mm for print-to-cut) Max Production Rate: 180,000 pcs/hour Sensor Dimensions: 120 x 50 x 50 mm Control Box Connections: Encoder, Sensor, LogiComm Smart Sensor/Trigger Status LEDs on control box Setup/monitor thru LogiComm touch screen
OTHER SENSORS	**Double Sheet Detector**	• Ultrasonic detector • Detects presence of more than a single product	• Folding Carton • Print Finishing	• Fixed alignment drop bar assembly for sensor and transmitter	Fixed Sensor Opening: 40 mm (+/- 3 mm) Max Reach (Bracket): 65 mm Response Time: 2.5 ms Rcvr/Amp Dimensions: 18 mm thrd x 111 mm Transmitter Dimensions: 18 mm thrd x 21 mm Connection: 9 Pin Dsub (Std Sensor) No settings required
	LA650 Photocell	• Visible Red Class 1 Laser • Detects product position and measures product length	• Folding Carton verify cutouts, product skew and missing/bent flap detection	• Folding Carton drop bar assembly	Sensing Distance: 5-100 mm Sensing Area: ~1 mm Response Time: 0.2 ms Sensor Dimensions: 15 x 34 x 22 mm Connection: 5 pin DIN (Std Trigger) Range adjust potentiometer Stability & Output LEDs
	Cello Presence	• Visible Red Diffuse Reflective • Detects presence of cellophane window material	• Folding Carton & Envelope window detection	• Long or short drop bar assembly	Sensing Distance: 40-300 mm Sensing Area: 2-15 mm Response Time: 1 ms Sensor Dimensions: 11 x 20 x 31 mm Connection: 9 Pin Dsub (Std Sensor) Range adjust potentiometer Stability & Output LEDs
	Cello Position	• Luster sensor • Detects position of cellophane window material	• Folding Carton & Envelope window position	• Long or short drop bar assembly with amplifier mount	Sensing Distance: 13-27 mm Sensing Area: 2 mm min. Response Time: 1 ms Sensor Dimensions: 29 x 29 x 10 mm Connection: 9 Pin Dsub (Std Sensor) One or two-point teach Teach button and mode switch Stability & Output LEDs

Quality Inspection For Your Products

The integrity and accuracy of packaging and converting production is becoming even more stringent than ever. Nordson verification and detection systems help protect against production and/or shipping losses due to poor quality or mixed lots. With decades of experience as a world leader in packaging and converting applications, Nordson inspection technology can help improve quality and production for:

- bags & sacks
- bookbinding
- case sealing
- clear plastic boxes
- corrugated boxes
- envelopes
- folding cartons
- labels
- print finishing/post press graphic arts
- sift-proof packages

Package of Values®

Nordson solutions are designed to provide consistent, high-quality manufacturing processes while improving production efficiency. Locally-available industry specialists and service technicians backed by a global team of knowledgeable engineers and 24/7 support staff help you develop, install and maintain solutions for established or emerging applications. Our people are supported by an infrastructure that includes research facilities, test laboratories and parts distribution warehouses in locations throughout Europe, Asia and the Americas.

For more information, talk with your Nordson representative or contact your Nordson regional office.

United States	Canada	Europe	Japan	Asia/Australia/Latin America
Duluth, Georgia	Markham, Ontario	Erkrath, Germany	Tokyo, Japan	Amherst, Ohio
Telephone: 800.683.2314	Telephone: 800.463.3200	Telephone: (49) 211-9205-0	Telephone: 81.3.5762.2700	Telephone: 440.985.4797
Facsimile: 866.667.3329	Facsimile: 905.475.8821	Facsimile: (49) 211-254658	Facsimile: 81.3.5762.2701	Facsimile: 440.985.1096

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