

BC 5100 Bar Code Reader Technical Data Sheet



Code Types	Codabar Code 39 Interleaved 2 of 9 Code 93 Code 128 UPC/EAN Pharmacode* Bobst code*
Orientation	Ladder or picket fence
Number of Bars	Pharmacode/Bobst code: 2 to 16 All other codes: does not apply
Maximum Line Speed	425 m/min (1400 ft/min) in picket fence orientation 150 m/min (500 ft/min) in ladder orientation @ 25 mm (0.98 in.) bar height
Scan Rate	2000 per second
Maximum Resolution	0.191 mm (0.01 in.)
Skew Angle	±40 degrees maximum
Pitch Angle	±50 degrees maximum
Distance to Substrate	Pharmacode/Bobst code: 127 mm (5.0 in.) fixed All other codes: 100 to 200 mm (3.94 to 7.87 in.) minimum distance required
Minimum Quiet Zone	Pharmacode/Bobst code: 7 mm (0.28 in.) All other codes: 5 times the width of the narrowest bar



Sensor Mounting	
Matte Surface:	90° to surface for matte or non-glossy surface
Glossy Surface/ Reflective Surface:	10° off from line parallel to product surface (pitching) 10° from line perpendicular to product surface (skewing)
Operating Temperature	0° to 60°C (32° to 140°F)
Required Warm-Up Time	15 minutes minimum
Enclosure Rating	IP 54
Dimensions	57.79 x 76.20 x 41.30 mm (2.28 x 3.0 x 1.63 in.)
Connector	LogiComm® smart verification sensor (15 pin D-Sub)
Light Source	Semiconductor visible laser diode (650 nm nominal)
Emissions	Radiated: CISPR22 EN55022: 1994 Class A Conducted: CISPR22

* Pharmacode/Bobst code restrictions:
Only bar codes in ratio 1 : 2 : 3
No other printing is allowed inside the detection area (no company names or numbers)
No red bars
No aluminum (foil paper) backgrounds
No triangle bar
Code needs to be printed only in lateral (picket fence) direction not in cross direction (ladder)

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

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