# CBX Series

## Industrial Connection Boxes

## Highlights

**CBX Series** are industrial connection boxes designed to speed up installation, configuration and maintenance tasks of Datalogic Automation's 1D/2D code readers. The complete range of optional modules provides connectivity to the most common fieldbus systems while extending communication capabilities.

### • COST EFFECTIVE
CBX Series features an extremely low cost of ownership by reducing installation time, and, in case of replacement, minimizing system downtime. CBX Series is the standard connectivity solution for Datalogic Automation product offer.

### • EASE OF INSTALLATION
Installation is simplified thanks to accessible through-holes for mounting screws with closed box. Optional adapters are available for fast fixing to Bosch profiles and DIN rail mounting.

### • EASE OF WIRING
Pinout standardization simplifies wiring to the appropriate terminal block. In addition, the accessible spring clamps allow easy cabling operation.

### • EASE OF MAINTENANCE
Fast access to service interface allows comfortable analysis and sw parameters optimization alongside with standard reading operation. When quick and reliable replacement is needed, CBX Series takes advantage of the optional Backup module. This memory unit simplifies Backup and Restore procedures while granting secure and rapid replacement.

### • INDUSTRIAL FEATURES
CBX Series features IP65 (NEMA 4) protection class and an operating temperature up to +50 °C (+122 °F). With its specific plastic and rubber materials, CBX100LT dedicated model features an operating temperature down to -35°C (-31°F).



## Features

- Standard connectivity solution for Datalogic Automation offer

- Extreme low cost of ownership

- IP65 (NEMA 4) rated industrial design

- Flexible mounting and simplified wiring to speed up the installation

- Reliable Backup and Restore feature to minimize plant downtime

- Open architecture allows comfortable connectivity to Ethernet TCP/IP, Profibus, DeviceNet, Ethernet/IP and other common networks.

- Multilanguage Display for easy monitoring and trobleshooting

- Visible Power and I/O indicators and convenient Power on/off switch

- Time saving through comprehensible networking with the periphery

- Time saving through Ease-of-use and fast installation

- Code reader diagnosis and monitoring through display

- Rapid and simple troubleshooting

## Applications

- Manufacturing

- Shop Floor

- Warehousing

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# CBX Series

## Specifications

## Accessories

### Models

| P/N | Description | | |
|---|---|---|---|
| 93A301067 | CBX100 CONNECTION BOX COMPACT | | |
| 93A301068 | CBX500 CONNECTION BOX MODULAR | | |
| 93A301069 | CBX100LT CONNECTION BOX COMPACT LOW TEMP. | | |

### Accessories

| P/N | Description | | |
|---|---|---|---|
| 93ACC1808 | BM100 BACKUP MODULE | CBX100 | CBX500 |
| 93ACC1809 | BM150 DISPLAY MODULE | | CBX500 |
| 93ACC1851 | BM200 ETHERNET TCP/IP MODULE | | CBX500 |
| 93ACC1852 | BM210 ETHERNET TCP/IP IP65 MODULE | | CBX500 |
| 93ACC1810 | BM300 PROFIBUS MODULE | | CBX500 |
| 93ACC1814 | BM400 DEVICENET MODULE | | CBX500 |
| 93ACC1811 | BM310 PROFIBUS IP65 MODULE | | CBX500 |
| 93ACC1812 | BM500 ETHERNET MODULE | | CBX500 |
| 93ACC1813 | BM510 ETHERNET IP65 MODULE | | CBX500 |
| 93ACC1840 | BM520 ETHERNET IP54 MODULE | | CBX500 |
| 93ACC1815 | BM600 CAN OPEN MODULE | | CBX500 |
| 93ACC1816 | BM700 PROFINET MODULE | | CBX500 |
| 93ACC1813 | BM510 ETHERNET IP65 MODULE | | CBX500 |
| 93ACC1845 | BM1100 CC-LINK MODULE | | CBX500 |
| 93ACC1848 | BM1200 MODBUS TCP MODULE | | CBX500 |
| 93ACC1849 | BM1210 MODBUS TCP IP65 MODULE | | CBX500 |
| 93ACC1821 | BA100 DIN RAIL ADAPTERS | CBX100 | CBX500 |
| 93ACC1822 | BA200 BOSCH ADAPTERS | CBX100 | CBX500 |
| 93ACC1847 | BA900 TWO CABLE GLANDS PANEL | | CBX500 |
| 93ACC1827 | ADP-FF1 GENDER CHANGER 25P F/F (5PCS) | CBX100 | CBX500 |

### Technical Data

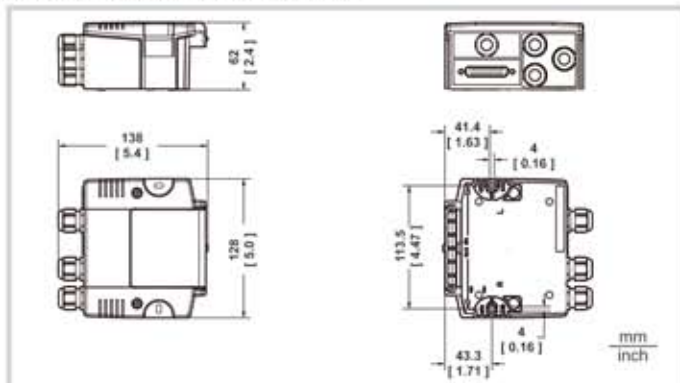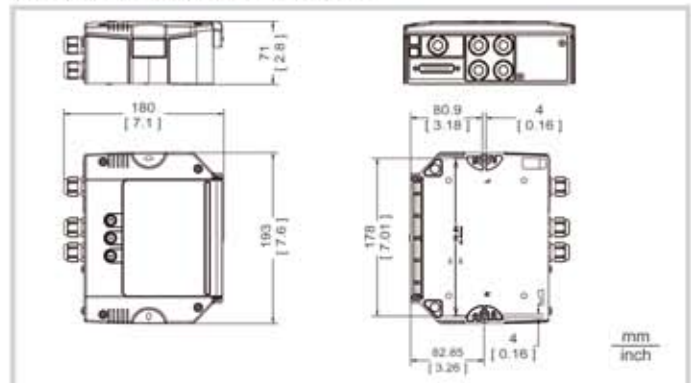| | CBX100 | CBX500 |
|---|---|---|
| Dimensions (L x W x H): | 128 x 137 x 62 mm | 193 x 180 x 71 mm |
| Weight: | 380 g. (13.40 oz.) | 780 g. (27.5 oz.) |
| Power Supply: | 10 to 30 VDC | |
| Power Consumption: | 2.5 W max | |
| Operating Temperature: | 0 to 50 °C (32 to 122 °F) | |
| Storage Temperature: | -20 to 70° C (-4 to 158° F) | |
| Humidity: | 90% non condensing | |
| Protection Class: | IP65 | |
| Shock Resistance: | EN 60068-2-27 30G; 11ms; 3 shocks on each axis | |
| Vibration Resistance: | EN 60068-2-6 1.5mm; 10 to 55 Hz; 2 hours on each axis | |
| Display & Keypad: | 20 x 4 characters & 3 keys | |
| Diagnostic Leds: | Power On/Polarity Error, Trigger, IN2, OUT1, OUT2 | |
| Communication Protocol: | Datalogic Application Driver (DAD Driver) | |
| Handshaking: | Message fragmentation and flow control | |
| Address Setting: | HW Switches, Genius™, VisiSet™ | |
| Exchange Memory For I/O Data: | Up to 128 bytes | |
| | CBX100 | CBX500 |
| Compatible devices: | DS2100N, DS2400N, DS4800, DS6300, DS6400, DX6400, DS8100A, DX8200A, MATRIX-2000™, MATRIX 200™, MATRIX 400™ | DS2100N, DS2400N, DS4800, MATRIX 200™, MATRIX 400™ |

**Backup Module**

**Fieldbus Module**

**Display Module**

### Dimensions

CBX100 CONNECTION BOX COMPACT

62 [2.4]
138 [5.4]
128 [5.0]
41.4 [1.63]
4 [0.16]
113.5 [4.47]
43.3 [1.71]
4 [0.16]
mm / inch

CBX500 CONNECTION BOX MODULAR

71 [2.8]
180 [7.1]
193 [7.6]
80.9 [3.18]
4 [0.16]
178 [7.01]
82.85 [3.26]
4 [0.16]
mm / inch

9C0005587

For more information and software downloads see: www.automation.datalogic.com/CBXSERIES

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