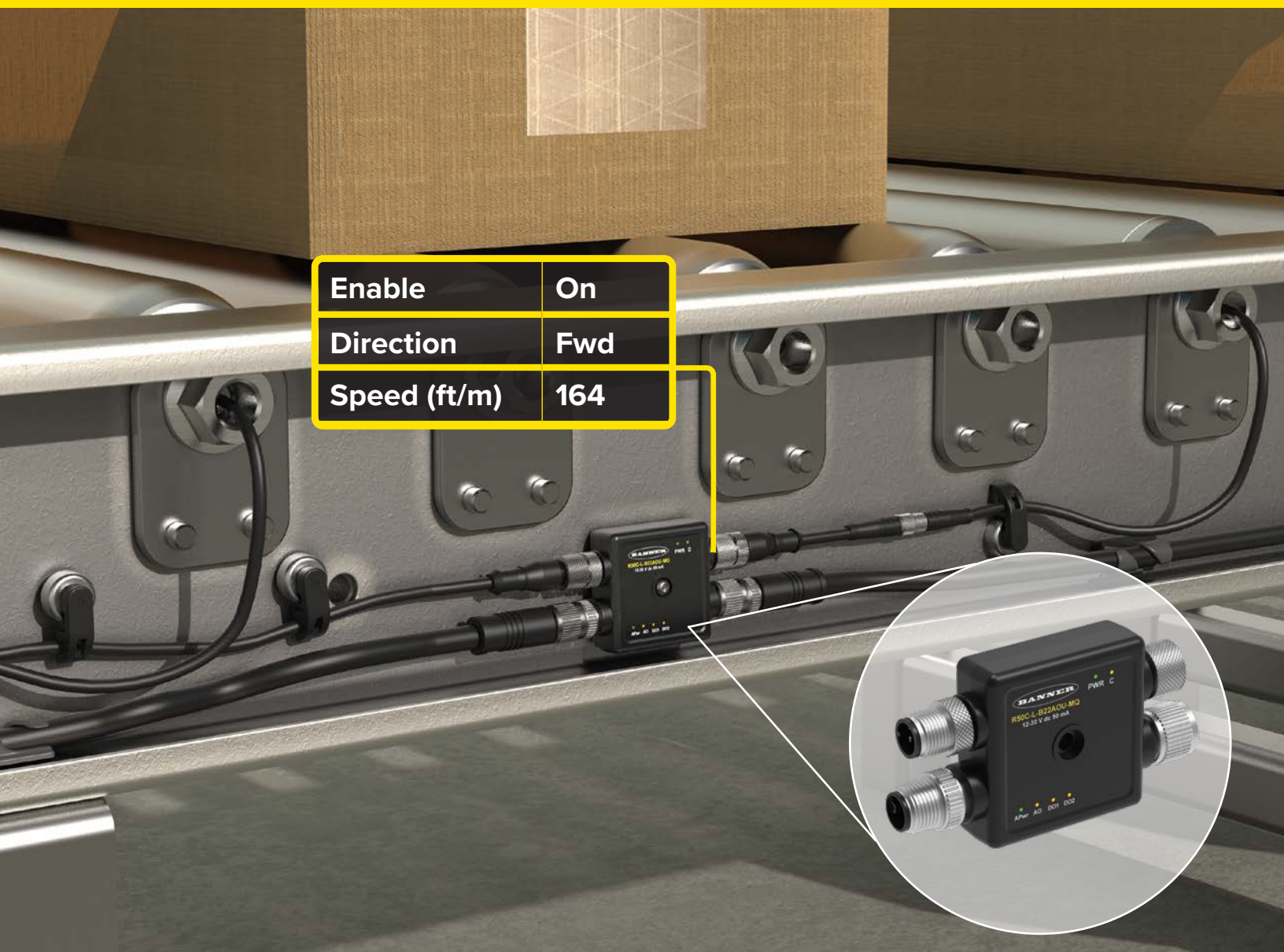


# R50C Motor Driven Roller Controller



## Compact Plug-and-Play Motor Driven Roller Control

- Easily control motor driven rollers from a PLC using Modbus® communication
- Simplify installation of multiple R50C's on a conveyor using standard A-coded M12 connectors for signals and L-coded M12 connectors for daisy chaining up to 16 amps of motor power
- Can be used in refrigerated, wet, and other challenging environments with IP67-rated fully sealed housing and -40° to 70° C operating range without an additional protective enclosure
- Monitor status and troubleshoot with ease via LED indicators



R50C Motor Driven Roller Controller

| Function                                         | Control | Connectors                                                                                                                                                                                                                                                                                      | Model            |
|--------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 2 discrete outputs and<br>1 analog 0-18 V output | Modbus  | 1 Pair: 5-pin M12 A-Code male quick-disconnect connector (power/comms)<br>5-pin M12 A-Code female quick-disconnect connector (MDR control)<br>and<br>1 Pair: 5-pin M12 L-Code male quick-disconnect connector (motor power)<br>5-pin M12 L-Code female quick-disconnect connector (motor power) | R50C-L-B22AOU-MQ |

Specifications



|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| Supply Voltage       | A-Code: 12 to 30 V DC at 400 mA maximum<br>L-Code: 24 V DC +/- 10% at 16 A maximum |
| Construction         | Coupling Material: Nickel-plated brass<br>Connector Body: PVC translucent black    |
| Operating Conditions | -40 to +70 °C                                                                      |
| Environmental Rating | IP65, IP67, IP68                                                                   |
| Certifications       | CE UK CA                                                                           |

Compatible Integrated Control Rollers

- Itoh Denki PM – XC
  - Itoh Denki PM - XE, XP
- Interroll EC310
  - Interroll EC5000
- Lenze MDR o450
  - PulseRoller Senergy IDC
- Rulmeca BL3

Accessories

A black cable with two M12 connectors at both ends.

**4-Pin M12 Double-Ended**  
Straight connector models for power and communications

- BC-M12F4-M12M4-22-2  
2 m (6.5')
- BC-M12F4-M12M4-22-5  
5 m (16.4')
- BC-M12F4-M12M4-22-10  
10 m (32.8')

A black cable with two M12 L-Code connectors at both ends.

**5-Pin M12 L-Code Double-Ended**  
M12 L-Code supply powers the outputs

- BCP-M12LF5-M12LM5-14-1  
1 m (3.2')
- BCP-M12LF5-M12LM5-14-10  
10 m (32.8')
- BCP-M12LF5-M12LM5-14-15  
15 m (49.2')

A black cable with an M12 connector on one end and an M8 connector on the other.

**5-Pin M12 To M8 Double-Ended**  
Straight connector models for connection between R50C and motor driven roller

- BC-M8F5B-M12M5-24-0.5  
0.5 m (1.6')
- BC-M8F5B-M12M5-24-1  
1 m (3.2')
- BC-M8F5B-M12M5-24-2  
2 m (6.5')

A green cable with an M12 D-Code connector on one end and an RJ45 connector on the other.

**4-Pin D-Code M12 to RJ45**  
Double-ended connector models for ethernet connection on DXMR90-X1

- STP-M12D-403  
0.9 m (2.9')
- STP-M12D-406  
1.83 m (6')
- STP-M12D-415  
4.57 m (15')
- STP-M12D-430  
9.14 m (30')

A black rectangular module with multiple ports on the front face.

**Industrial Controller**

- Allows PLC communication with MDR controller via common industrial protocols Modbus TCP, Ethernet I/P and ProfiNet
- Four dedicated Modbus client ports allow communication with multiple motor driver roller controllers

**DXMR90-X1**