R50C Motor Driven Roller Controller

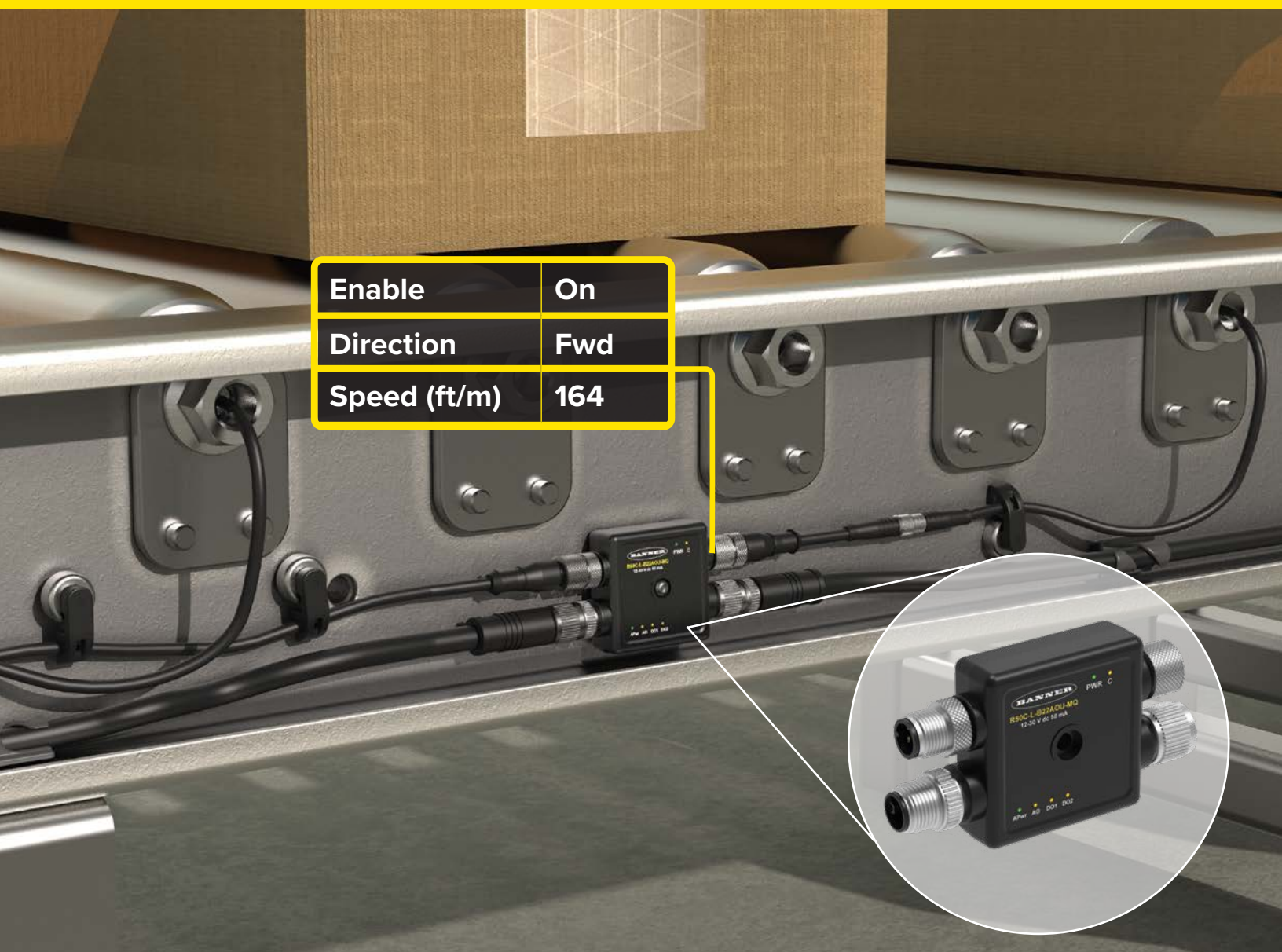| Enable	On
Direction	Fwd
Speed (ft/m)	164

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

BANNER®

R50C Motor Driven Roller Controller

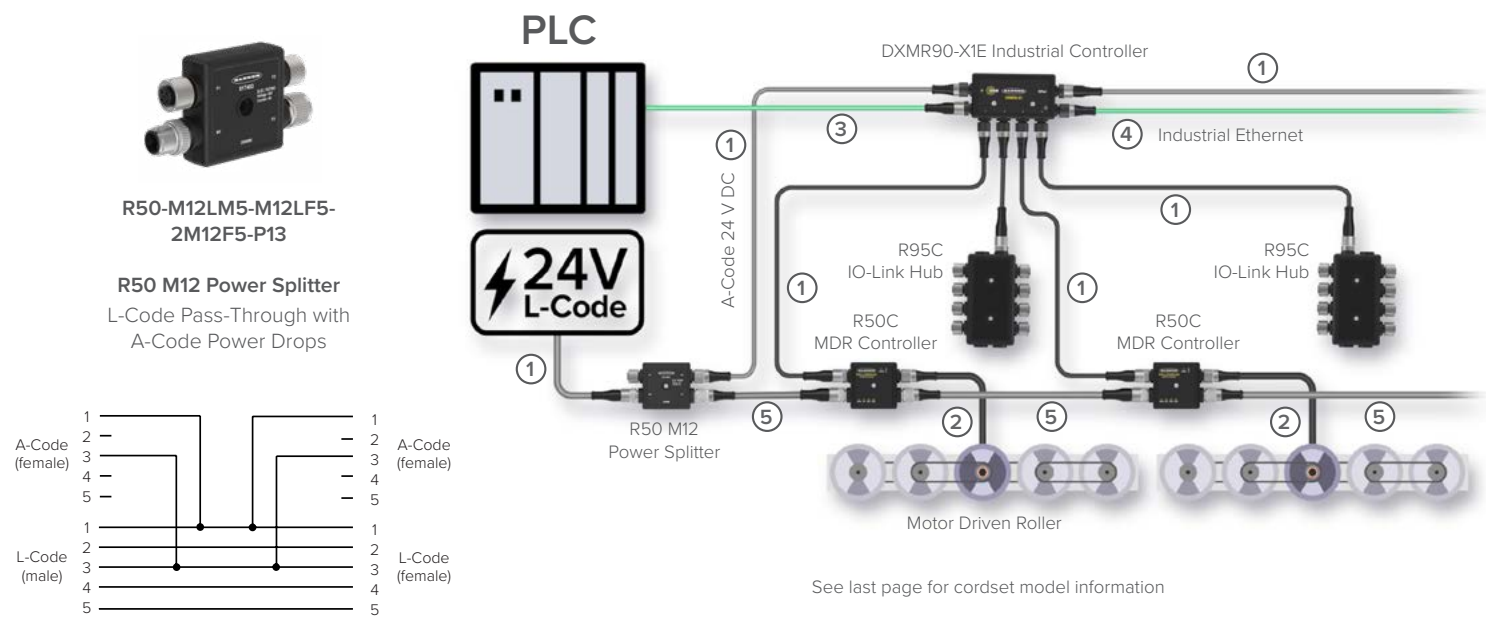| Function	Control	Connectors	Model
2 discrete outputs and 1 analog 0-18 V output	Modbus	1 Pair: 5-pin M12 A-Code male quick-disconnect connector (power/comms) 5-pin M12 A-Code female quick-disconnect connector (MDR control) and 1 Pair: 5-pin M12 L-Code male quick-disconnect connector (motor power) 5-pin 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 L-Code: 24 V DC +/- 10% at 16 A maximum
Construction	Coupling Material: Nickel-plated brass 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 PM000XC**
- **Itoh Denki PM000XE, PM000XP**
- **Interroll EC310**
- **Interroll EC5000**
- **Lenze MDR o450**
- **PulseRoller Senergy IDC**
- **Rulmeca BL3**

Accessories

R50-M12LM5-M12LF5-2M12F5-P13

R50 M12 Power Splitter
L-Code Pass-Through with A-Code Power Drops

See last page for cordset model information

DXMR90-X1E Industrial Controller

- Allows PLC communication with MDR controller via common industrial protocols Modbus TCP, Ethernet/IP™ and PROFINET®
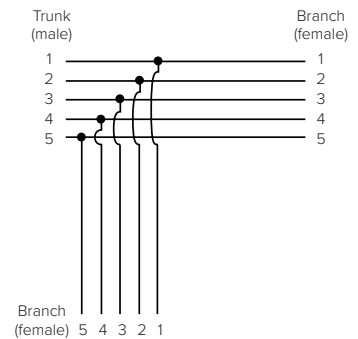- Four dedicated Modbus client ports allow communication with multiple motor driver roller controllers

R50-2M125L-M125-P
M12 Power Junction Block

R50T-2M125L-M125-P
M12 Tee Power Junction Block

Power Junction Block Wiring

① **4-Pin M12 Double-Ended**
Straight connector models for device 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')

④ **4-Pin M12 D-Code Double-Ended**
Straight connector models for Ethernet connections between DXMR90-X1E controllers

BCD-M12DM-M12DM-2M
2 m (6.5')
BCD-M12DM-M12DM-5M
5 m (16.4')
BCD-M12DM-M12DM-10M
10 m (32.8')

② **5-Pin M12 to M8 Double-Ended**
Straight connector models for connection between R50C MDR controller 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')

⑤ **5-Pin M12 L-Code Double-Ended**
Straight connector models for high amp power connections between R50C MDR controllers

BCP-M12LF5-M12LM5-14-2
2 m (6.5')
BCP-M12LF5-M12LM5-14-10
10 m (32.8')
BCP-M12LF5-M12LM5-14-15
15 m (49.2')

③ **4-Pin D-Code M12 to RJ45 Double-ended**
Straight connector models for Ethernet connection on DXMR90-X1E

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')

5-Pin M12 L-Code Single-Ended
Straight connector models for high amp power connections to R50C MDR controllers

BCP-M12LF5-14-2
2 m (6.5')
BCP-M12LF5-14-5
5 m (16.4')
BCP-M12LF5-14-10
10 m (32.8')