# Wireless Accessories


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ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

# Antennas

Select your antenna based on your specific application needs. There are three basic antenna solutions:

- Use the supplied rubber duck antenna inside the enclosure. DX80 products come with a 2 dBi rubber duck antenna. Often simply attaching the supplied antenna to the radio provides enough radio range to meet your needs.
- Mount a dome antenna to the enclosure. The -D antennas can be mounted directly on the enclosure.
- Use an N-type pole-mounted antenna, with surge suppressor. The -A and -AS antennas can be mounted remotely from the enclosure and require the BWC-LFNBMN-DC surge suppressor.

**BWA** – **9** **O** **2** –

Banner Wireless Accessories

Frequency
- **2** = 2.4 GHz
- **9** = 900 MHz

Type
- **O** = Omni
- **Y** = Yagi

Gain
- **1** = 1 dBi
- **2** = 2 dBi
- **5** = 5 dBi
- **6** = 6 dBi
- **7** = 7 dBi
- **8** = 8 dBi
- **6** = 6.5 dBd*
- **10** = 10 dBd*

NOTE: Not all combinations are available. Contact our factory to verify yours.

* dBd for Yagi models only

## Omni-Directional









| | | |
|---|---|---|
| **BWA-2O1-001** | 2.4 GHz | 1 dBi, Rubber, 1 in tall, RP-SMA connection |
| **BWA-2O2-C** | 2.4 GHz | 2 dBi, Rubber swivel, 3 1/4 in (ships with 2.4 GHz radios), RP-SMA connection |
| **BWA-2O5-C** | 2.4 GHz | 5 dBi, Rubber swivel, 6 1/2 in, RP-SMA connection |
| **BWA-2O7-C** | 2.4 GHz | 7 dBi, Rubber swivel, 9 1/4 in, RP-SMA connection |
| **BWA-9O2-C** | 900 MHz | 2 dBi, Rubber swivel (ships with 900 MHz radios), RP-SMA connection |
| **BWA-9O5-C** | 900 MHz | 5 dBi, Rubber swivel, RP-SMA connection |
| **BWA-9O2-RA** | 900 MHz | 2 dBi, Rubber fixed right-angle, RP-SMA connection |
| **BWA-9O2-RA2** | 900 MHz | 2 dBi 1/2 wave, Rubber fixed right-angle, 160 mm tall, RP-SMA connection |
| **BWA-2O2-001** | 2.4 GHz | 2 dBi, 18 inch cable, 1/2" SS NPT Port |
| **BWA-2O2-002** | 2.4 GHz | 2 dBi, 18 inch cable, 3/4" SS NPT Port |
| **BWA-2O2-D** | 2.4 GHz | 2 dBi, 18 inch cable, RP-SMA Box Mount |
| **BWA-9O2-001** | 900 MHz | 2 dBi, 18 inch cable, 1/2" SS NPT Port |
| **BWA-9O2-002** | 900 MHz | 2 dBi, 18 inch cable, 3/4" SS NPT Port |
| **BWA-9O2-D** | 900 MHz | 2 dBi, 18 inch cable, RP-SMA Box Mount |



| | | |
|---|---|---|
| **BWA-2O6-A** | 2.4 GHz | 6 dBi, Fiberglass, 16 in (shown), N-Type connection |
| **BWA-2O8-A** | 2.4 GHz | 8.5 dBi, Fiberglass, 24 in, N-Type connection |
| **BWA-9O6-A** | 900 MHz | 6 dBi, Fiberglass, N-Type connection |
| **BWA-9O6-AS** | 900 MHz | 6 dBi, Fiberglass, 1/4 Wave, 23.6 in (1.3 inch diameter), N-Type connection |
| **BWA-9O8-AS** | 900 MHz | 8 dBi, Fiberglass, 3/4 Wave, 63 in (1.5 inch diameter), N-Type connection |

## Yagi



| | | |
|---|---|---|
| **BWA-9Y6-A** | 900 MHz | 6.5 dBd, 6.8 × 13 inches Outdoor, N-Type connection |
| **BWA-9Y10-A** | 900 MHz | 10 dBd, 6.8 × 24 inches Outdoor, N-Type connection |

## Cellular (CDMA multi band)



| | |
|---|---|
| **BWA-CELLA-002** | 2 dBi, 6.3 in blade style, RP-SMA male connection |

# Antenna Cables



## Antenna Cables: RP-SMA to RP-SMA

| | |
|---|---|
| **BWC-1MRSFRSB0.2** | RG58, RP-SMA Male to RP-SMA Female Bulkhead, 0.2 m |
| **BWC-1MRSFRSB1** | RG58, RP-SMA Male to RP-SMA Female Bulkhead, 1 m |
| **BWC-1MRSFRSB2** | RG58, RP-SMA Male to RP-SMA Female Bulkhead, 2 m |
| **BWC-1MRSFRSB4** | RG58, RP-SMA Male to RP-SMA Female Bulkhead, 4 m |
| **BWC-2MRSFRS3** | LMR200, RP-SMA Male to RP-SMA Female, 3 m |
| **BWC-2MRSFRS6** | LMR200, RP-SMA Male to RP-SMA Female, 6 m |
| **BWC-2MRSFRS9** | LMR200, RP-SMA Male to RP-SMA Female, 9 m |
| **BWC-2MRSFRS12** | LMR200, RP-SMA Male to RP-SMA Female, 12 m |



## Antenna Cables: RP-SMA to N-Type

| | |
|---|---|
| **BWC-1MRSMN05** | LMR100 RP-SMA to N-Type Male, 0.5 m |
| **BWC-1MRSMN2** | LMR100 RP-SMA to N-Type Male, 2 m |



## Antenna Cables: N-Type

| | |
|---|---|
| **BWC-4MNFN3** | LMR400 N-Type Male to N-Type Female, 3 m |
| **BWC-4MNFN6** | LMR400 N-Type Male to N-Type Female, 6 m |
| **BWC-4MNFN15** | LMR400 N-Type Male to N-Type Female, 15 m |
| **BWC-4MNFN30** | LMR400 N-Type Male to N-Type Female, 30 m |





## Surge Suppressors

| | |
|---|---|
| **BWC-LFNBMN-DC** | Surge Suppressor, bulkhead, N-Type Female, N-Type Male, dc Blocking |
| **BWC-LMRSFRPB** | Surge Suppressor, bulkhead, RPSMA to RP-SMA |



## Antenna Housing

| | |
|---|---|
| **BWA-HW-016** | Antenna Feedthrough, Stainless Steel, 1/2" NPT |
| **BWA-HW-017** | Antenna Feedthrough, Stainless Steel 3/4" NPT |

# Batteries

| | | |
|---|---|---|
|  | **BWA-BATT-001** | 3.6 V Lithium D cell for hazardous or nonhazardous locations, one battery |
|  | **BWA-BATT-006** | 3.6 V Lithium AA cell, two batteries |
|  | **BWA-BATT-011** | 3.6 V Lithium D cell for non-hazardous locations only, one battery |
|  | **BWA-BATT-013** | 3.6 V Lithium C cell, one battery |
|  | **DX81-LITH** | Battery Supply Module with mounting hardware |
|  | **DX81P6** | Battery Supply Module, six “D” cells, with mounting hardware |

# Brackets



**BWA-BK-004**

- Mounts both the K50U Ultrasonic sensor and a Wireless Q45U Node or DX80 Node



**BWA-BK-006**

- Mounts both the K50U Ultrasonic sensor and a Wireless Q45U Node



**BWA-BK-008**

- Magnetic coaxial mount for round objects
- Includes SMB42FLAT stainless steel bracket, 1/4"-28 screw mount, and 1 piece of 3M™ thermally conductive adhesive transfer tape 42 mm × 42 mm



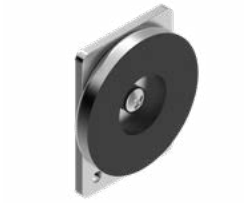
**BWA-BK-009**

- Mounts the device to a surface using two-part epoxy
- Alignment mark indicates the front of device
- Includes a base plate, two screw retainers, four mounting screws, a set screw, and a mounting disc



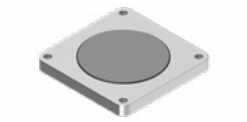
**BWA-BK-010**

- Includes a magnetic mounting bracket and four mounting screws
- 44.5 mm × 49.5 mm
- SmCo magnet with a 40 lb pull strength
- For use on flat or curved surfaces



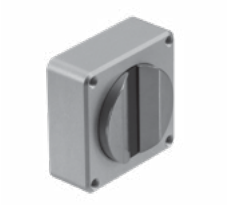
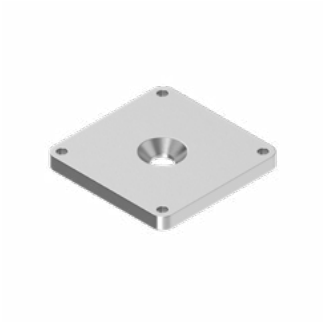
**BWA-BK-011**

- Backside magnetic mount for the Q45 Sensors
- Includes one bracket, three screws, and a magnetic cup
- 60 mm × 40 mm
- For use on a flat surface



**BWA-BK-013**

- Includes magnetic mounting bracket and four mounting screws (two sets of mounting screws for both the aluminum and stainless steel models)
- 30 mm × 30 mm

| | | |
|---|---|---|
|  | **BWA-BK-019** | • Magnet mount for curved surfaces<br>• 30 mm × 30 mm, 14.4 mm thick<br>• Includes four M2.5 × 16 mm socket head cap screws |
|  | **BWA-BK-022** | • Use when measuring high frequency vibrations or when mounting the sensor to curved surfaces<br>• Includes aluminum bracket, four mounting screws, one ¼-28 × 1/2 screw mount, and one piece of 3M™ thermally conductive adhesive transfer tape<br>• 30 mm × 30 mm<br>• Refer to the Bracket Assembly Quick Start Guide for installation instructions (p/n 213323) |
| | **BWA-BK-023** | • Use when measuring high frequency vibrations or when mounting the sensor to curved surfaces<br>• Includes stainless steel bracket, four mounting screws, and one ¼-28 × 1/2 screw mount<br>• 30 mm × 30 mm<br>• Refer to the Bracket Assembly Quick Start Guide for installation instructions (p/n 213323) |
|  | **BWA-BK-024** | • Disk Vibration Mount<br>• 10-32 thread 25 mm diameter<br>• Stainless steel |
|  | **BWA-BK-025** | • Includes a magnetic mounting bracket and four mounting screws<br>• For use on flat or curved surfaces<br>• SmCo magnet with a 40 lb pull strength<br>• 44.5 mm × 54 mm; 15.6 mm thick |
|  | **BWA-BK-026** | • Includes a base plate, two screw retainers, four mounting screws, a set screw, and a mounting disc<br>• Mounts the device to a surface using two-part epoxy<br>• Alignment mark indicates the front of device<br>• 44.5 mm × 54 mm |
|  | **SMBAMS18RA** | • Right-angle SMBAMS series bracket with 18 mm hole<br>• Articulation slots for 90+° rotation<br>• 12-ga. (2.6 mm) cold-rolled steel |
|  | **SMBDX80DIN** | • Black reinforced thermoplastic bracket for mounting on a 35 mm DIN rail |

# Communication Cables



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|---|---|
| **BWA-DRSPLITTER** | DB9 Splitter Cable, Splitter cable, DB9 Female (RS232) trunk to 5-pin M12 male and female - 11.8 inch branches and trunk |



| | |
|---|---|
| **BWA-E2M** | Ethernet cable, RSCD RJ45 440, 2 m |
| **BWA-E8M** | Ethernet cable, RSCD RJ45 440, 8 m |
| **BWA-EX2M** | Ethernet cable, crossover, RSCD RJ45CR 440, 2 m |



| | |
|---|---|
| **BWA-HW-006** | Adapter cable, USB to RS-485, for use with the User Configuration Tool software (UCT) |



| | |
|---|---|
| **BWA-UCT-900** | Adapter cable with power, USB to RS-485, for use with the User Configuration Tool software (UCT), supplies power to 1 Watt radios |



| | |
|---|---|
| **BWA-USB1WIRE-001** | PC USB to 1-wire Serial Interface converter. Use with the Sensor Configuration Tool software to communicate directly with 1-wire Serial Interface sensors |



| | |
|---|---|
| **BWA-HW-026** | Splitter cable with a wall plug to supply external power to a MultiHop Radio operating at 1 Watt while it is connected to a computer |
| **BWA-RIBBON-001** | Ribbon cable, 20-pin DBL socket |

# Enclosures and Panels













| | |
|---|---|
| **BWA-AH66SPK** | Swing Panel Kit, 6 × 6 in, Includes Mounts, Screws, and Panel |
| **BWA-AH86SPK** | Swing Panel Kit, 8 × 6 in, Includes Mounts, Screws, and Panel |
| **BWA-AH108SPK** | Swing Panel Kit, 8 × 10 in, Includes Mounts, Screws, and Panel |
| **BWA-AH1210SPK** | Swing Panel Kit, 12 × 10 in, Includes Mounts, Screws, and Panel |
| **BWA-AH1412SPK** | Swing Panel Kit, 14 × 12 in, Includes Mounts, Screws, and Panel |
| **BWA-AH1614SPK** | Swing Panel Kit, 16 × 14 in, Includes Mounts, Screws, and Panel |
| **BWA-AH1816SPK** | Swing Panel Kit, 18 × 16 in, Includes Mounts, Screws, and Panel |
| **BWA-BP66A** | Back Panel, aluminum, 6 × 6 in |
| **BWA-BP86A** | Back Panel, aluminum, 6 × 6 in |
| **BWA-BP108A** | Back Panel, aluminum, 8 × 10 in |
| **BWA-BP1210A** | Back Panel, aluminum, 12 × 10 in |
| **BWA-BP1412A** | Back Panel, aluminum, 14 × 12 in |
| **BWA-BP1614A** | Back Panel, aluminum, 16 × 14 in |
| **BWA-BP1816A** | Back Panel, aluminum, 18 × 16 in |
| **BWA-EF866** | Enclosure Fiberglass Hinged 8 × 6 × 6 in |
| **BWA-EF1086** | Enclosure Fiberglass Hinged 10 × 8 × 6 in |
| **BWA-PANEL86** | Panel, 8 × 6 in |
| **BWA-PANEL108** | Panel, 10 × 8 in |
| **BWA-AH6DR** | Din Rail Kit 6 in (Includes 2 Tribolar Screws and DIN Rail) |
| **BWA-AH8DR** | Din Rail Kit 8 in (Includes 2 Tribolar Screws and DIN Rail) |
| **BWA-AH10DR** | Din Rail Kit 10 in (Includes 2 Tribolar Screws and DIN Rail) |
| **BWA-AH12DR** | Din Rail Kit 12 in (Includes 2 Tribolar Screws and DIN Rail) |
| **BWA-AH14DR** | Din Rail Kit 14 in (Includes 2 Tribolar Screws and DIN Rail) |
| **BWA-AH16DR** | Din Rail Kit 16 in (Includes 2 Tribolar Screws and DIN Rail) |
| **BWA-AH18DR** | Din Rail Kit 18 in (Includes 2 Tribolar Screws and DIN Rail) |
| **DIN-35-70** | 35 mm DIN Rail Track, 70 mm length track |
| **DIN-35-105** | 35 mm DIN Rail Track, 105 mm length track |
| **DIN-35-140** | 35 mm DIN Rail Track, 140 mm length track |
| **DIN-35-180** | 35 mm DIN Rail Track, 180 mm length track |
| **DIN-35-220** | 35 mm DIN Rail Track, 220 mm length track |
| **BWA-AHTBS** | DIN Rail Kit, Trilobular/self-threading screws, #10-32 × 0.375 PHL PH ZINC, 10 pack |

# Hardware Packets

| | | |
|---|---|---|
|  | **BWA-CG.5-2X2.5-10** | Cable Glands, 1/2-in NPT, Cordgrip for 2 holes of 1.2 to 2.5 mm diameter, 10 Pack |
|  | **BWA-CG.5-10** | Cable Glands, 1/2-in NPT, Cordgrip for 3 holes of 2.8 to 5.6 mm diameter, 10 Pack |
|  | **BWA-CG.5-3X5.6-10** | Cable Glands, 1/2-in NPT, Cordgrip for 3 holes of 2.8 to 5.6 mm diam, 10 Pack |
|  | **BWA-CG.5-6X3.0-10** | Cable Glands, 1/2-in NPT, Cordgrip for 6 holes of 1.5 to 3 mm diameter, 10 Pack |
|  | **BWA-CG.5-6X4.0-10** | Cable Glands, 1/2-in NPT, Cordgrip for 6 holes of 2 to 4 mm diameter, 10 Pack |
|  | **BWA-HW-052** | Cable Gland Pack: 1/2-in NPT gland, 1/2-inch NPT multi-cable gland, and 1/2-inch NPT vent plug |
|  | **BWA-HW-053** | Plug Conduit, Plastic Hex, 1/2-14 NPT, for 1.2 to 2.5 mm dia |
|  | **BWA-HW-031** | Vent Plug, 1/2-in NPT, IP67 |
|  | **BWA-HW-032** | Access hardware for the E housing, one 1/2-inch plug, one 1/2-inch gland |
|  | **BWA-HW-034** | • DIN rail clip, black plastic<br>• Used with the M-HBx MultiHop and -PBx Performance board modules |
| | **BWA-AHAK** | Accessory Kit: includes all screws, inserts and mounting feet (replacement only) |

# I-O Expansion




| | |
|---|---|
| **DX85M0P0M4M4** | DX85 Modbus RTU Remote I/O, 4 Analog IN, 4 Analog OUT (0 to 20 mA) |
| **DX85M4P4M2M2** | DX85 Modbus RTU Remote I/O, 4 Discrete IN, 4 Discrete OUT, 2 Analog IN, 2 Analog OUT (0 to 20 mA) |
| **DX85M-P8** | DX85 Modbus RTU Remote I/O, Up to 12 sourcing inputs or up to 12 sourcing outputs (for a total of 12 I/O) |




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|---|---|
| **BWA-RELAY-12V** | Relay, Blade Style with Base, 12 V |
| **BWA-RELAY-24V** | Relay, Blade Style with Base, 24 V |



| | |
|---|---|
| **BWA-RH1B-UDC12V** | Relay, Blade Style, No Base, 12 V (replacement part) |
| **BWA-RH1B-UDC24V** | Relay, Blade Style, No Base, 24 V (replacement part) |



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|---|---|
| **BWA-SH1B-05** | Relay Base Only (replacement part) |



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|---|---|
| **IB6RP** | Interface Relay Box, 18 to 26 V dc inputs, isolated relay outputs (not shown) |

NOTE: Add a “C” to the end of any DX85 model to order that I/O mix with an IP20 housing. The IP20 models are Class I, Division 2 certified when installed in a suitable enclosure.

# Power Cordsets

## Pre-wired



| Model | Style |
|---|---|
| **BWA-QD5.5** | Prewired 5-pin M12 quick disconnect (QD), 1/2-14 NBSM |
| **BWA-QD8.5** | Prewired 8-pin M12 quick disconnect (QD), 1/2-14 NBSM |
| **BWA-QD12.56** | Prewired 12-pin M12 quick disconnect (QD), 1/2-14 NBSM |

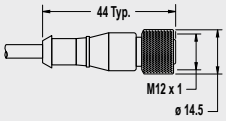
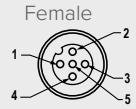
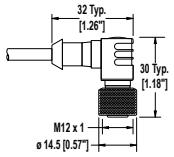
## M12 — Single-Ended

Right-angle cordsets are not compatible with the DX70 devices. When facing the Node or Gateway toward you and the quick-disconnect connection is facing down, the right-angle cables exit to the right.

When using the FlexPower® Node with integrated battery, use a double-ended cordset. When using a FlexPower Node with external power supply, use a single-ended cordset. If using the communication lines, the cable length cannot exceed 3 meters (10 ft).





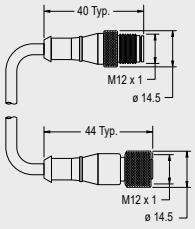
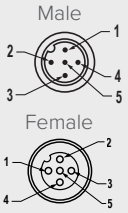
| Model | Length | Style | Dimensions | Pinout |
|---|---|---|---|---|
| **MQDC1-501.5** | 0.50 m (1.5 ft) | Straight |   |   1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Gray |
| **MQDC1-506** | 1.83 m (6 ft) | | | |
| **MQDC1-515** | 4.57 m (15 ft) | | | |
| **MQDC1-530** | 9.14 m (30 ft) | | | |
| **MQDC1-506RA** | 1.83 m (6 ft) | Right-Angle |   | |
| **MQDC1-515RA** | 4.57 m (15 ft) | | | |
| **MQDC1-530RA** | 9.14 m (30 ft) | | | |

## M12 — Double-Ended

Right-angle cordsets are not compatible with the DX70 devices. When facing the Node or Gateway toward you and the quick-disconnect connection is facing down, the right-angle cables exit to the right.

When using the FlexPower® Node with integrated battery, use a double-ended cordset. When using a FlexPower Node with external power supply, use a single-ended cordset. If using the communication lines, the cable length cannot exceed 3 meters (10 ft).



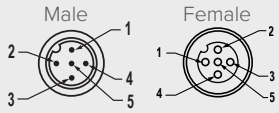
| Model | Length | Style | Dimensions | Pinout |
|---|---|---|---|---|
| **MQDEC-501SS** | 0.31 m (1.02 ft) | Straight |   |   1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Gray |
| **MQDEC-503SS** | 0.91 m (2.99 ft) | | | |
| **MQDEC-506SS** | 1.83 m (6 ft) | | | |
| **MQDEC-512SS** | 3.66 m (12 ft) | | | |

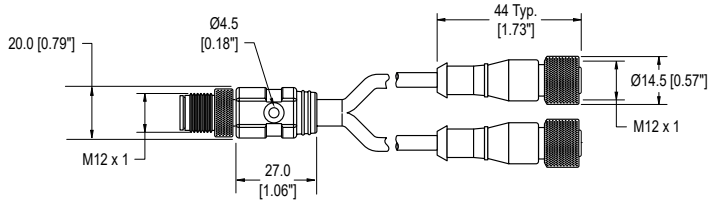
## Splitter Cables

Use CSRB-M1250M125.47M125.73 to split power between two FlexPower® or solar powered devices. DO NOT use this cable to connect a FlexPower devices to a 10 to 30 V dc powered device.

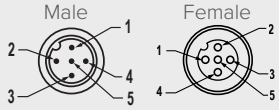
Use CSRB-M1253.28M1253.28M1253.28 to connect one FlexPower device (data radio, FlexPowered Gateway, etc) to two power sources, such as the FlexPower Solar Supply and DX81P6 Battery Pack.

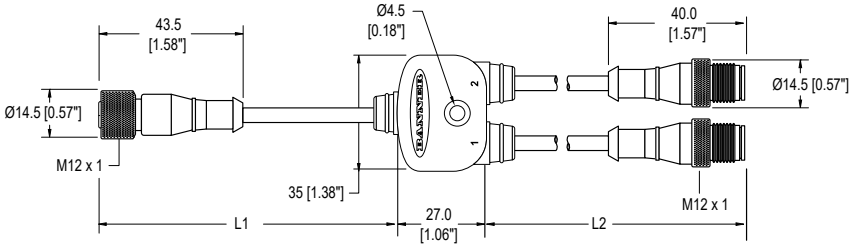


| Model | Length | Style | Pinout |
|---|---|---|---|
| **CSRB-M1250M125.47M125.73** | Trunk:<br>0 m (male)<br>Branches:<br>0.14 m and 0.22 m (female) | Straight | Male / Female<br><br>1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Green/Yellow |





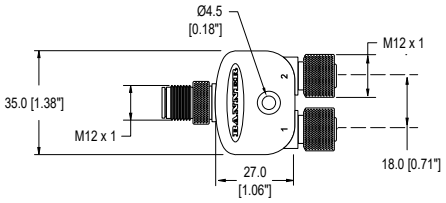

| Model | Length | Style | Pinout |
|---|---|---|---|
| **CSRB-M1253.28M1253.28M1253.28** | Trunk:<br>1 m (female)<br>Branches:<br>1 m (male) | Straight | Male / Female<br><br>1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Green/Yellow |



# Power Cordsets (continued)

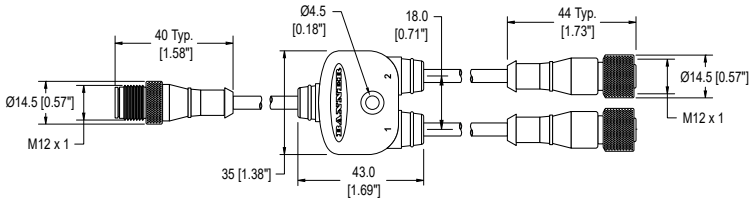


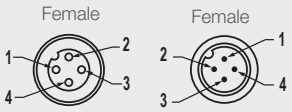
| Model | Length | Style | Pinout |
|---|---|---|---|
| **CSB-M1240M1240** | Trunk: None<br>Branches: None | Straight | Female Female<br>1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black |



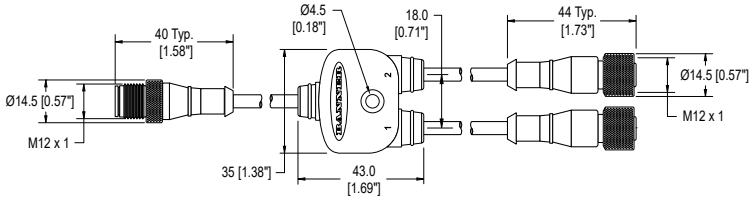


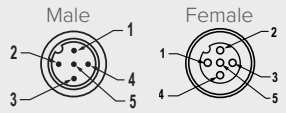

| Model | Length | Style | Pinout |
|---|---|---|---|
| **CSB-M1240M1241** | Trunk:<br>None (male)<br>Branches:<br>0.3 m (female) | Straight | Female Female<br>1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black |

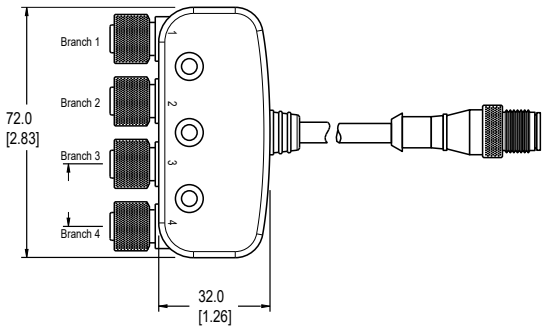


| Model | Length | Style | Pinout |
|---|---|---|---|
| **CSB-M1241M1241** | Trunk:<br>0.30 m (male)<br>Branch:<br>2 x 0.30 m (female) | Straight | <br>1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black |
| **CSB-M1248M1241** | Trunk:<br>2.50 m (male)<br>Branch:<br>2 x 0.30 m (female) | Straight | |
| **CSB-M12415M1241** | Trunk:<br>4.57 m (male)<br>Branch:<br>2 x 0.30 m (female) | Straight | |
| **CSB-M21425M1241** | Trunk:<br>7.60 m (male)<br>Branch:<br>2 x 0.30 m (female) | Straight | |
| **CSB-UNT425M1241** | Trunk: 7.60 m<br>Unterminated | Straight | |



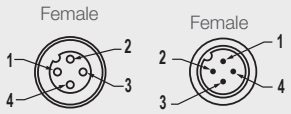


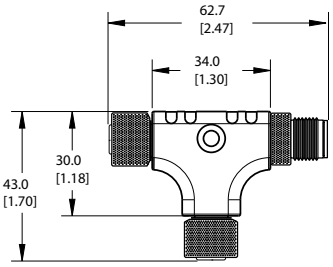

| | | | |
|---|---|---|---|
| **CSB4-M1251M1250** | Branches: 0.0<br>Trunk: 0.3 | No trunk | <br>1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Gray |



# Power Cordsets (continued)



| Model | Length | Style | Pinout |
|---|---|---|---|
| CSB-M1250M1250-T | 2 x 0.30 m (1 ft) | 0.30 m (1 ft) | <br>1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black |




## Receptacle



| Model | Style | Dimensions | Pinout |
|---|---|---|---|
| BWA-HW-027 | 8-pin quick disconnect, female, 1/2-inch NPT (FK8-0.5/14.5/NPT) | | |

## Connector



| Model | Style | Dimensions | Pinout |
|---|---|---|---|
| FIC-M12F4 | 4-pin M12/Euro-style straight female field-wireable connector | | |

# Power Supplies



| | |
|---|---|
| **PSD-24-4** | DC power supply with wall plug, 90-264 V AC 50/60 Hz input, 24 V DC output, US-style wall plug input, 4-pin M12/Euro-style output; 2 m (6 ft) cable, UL Listed Class 2 |




| | |
|---|---|
| **PSDINP-24-06** | DC power supply, 0.63 Amps, 24 V DC, with DIN Rail Mount, Class I Division 2 (Groups A, B, C, D) Rated |
| **PSDINP-24-13** | DC power supply, 1.3 Amps, 24 V DC, with DIN Rail Mount, Class I Division 2 (Groups A, B, C, D) Rated |
| **PSDINP-24-25** | DC power supply, 2.5 Amps, 24 V DC, with DIN Rail Mount, Class I Division 2 (Groups A, B, C, D) Rated |



| | |
|---|---|
| **PSW-24-1** | DC power supply with wall plug, 100-240 V AC 50/60 Hz input, 24 V DC 1 A output, UL Listed Class 2 |
| **PSWB-24-1** | DC power supply with multi-blade wall plug,100–240 V AC 50/60 Hz input, 24 V DC 1 A output, UL Listed Class 2, barrel jack connector |

# Sensors

## Sensors with a Serial Interface




| | |
|---|---|
| **QM30VT1** | • Vibration and Temperature Sensor<br>• Aluminum housing<br>• 2.09 m (6.85 ft) cable with a 5-pin M12 male quick disconnect (QD) |
| **QM30VT1-QP** | • Vibration and Temperature Sensor<br>• Aluminum housing<br>• 150 mm (6 in) cable with a 5-pin M12 male quick disconnect (QD) |
| **QM30VT1-SS** | • Vibration and Temperature Sensor<br>• Stainless steel housing<br>• 2.09 m (6.85 ft) cable with a 5-pin M12 male quick disconnect (QD) |



| | |
|---|---|
| **K50UX1ARA** | • 1-wire serial interface ultrasonic sensor<br>• Range: 100 mm to 1 m (3.94 in to 39.4 in) |
| **K50UX1CRA** | • 1-wire serial interface ultrasonic sensor<br>• Range: 300 mm to 3 m (11.8 in to 118 in) |



| | |
|---|---|
| **M12FTH4Q** | • Temperature and humidity sensor<br>• ±2% Accuracy, 1-wire serial interface<br>• (Requires a 5-pin threaded M12 double-ended cordset less than 3 meters long, such as model DEE2R-5xD.) |
| **M12FT4Q** | • Temperature sensor<br>• 1-wire serial interface<br>• (Requires a 5-pin threaded M12 double-ended cordset less than 3 meters long, such as model DEE2R-5xD.) |

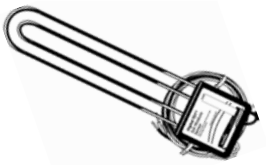
## Sensors with Modbus Interface




| | |
|---|---|
| **QM30VT2** | • Vibration and temperature sensor, RS-485 Modbus interface<br>• Detects dual-axis vibration<br>• Aluminium housing<br>• 3 m cable with a 5-pin M12/Euro-style male quick disconnect (QD) |
| **QM30VT2-SS-QP** | • Vibration and temperature sensor, RS-485 Modbus interface<br>• Detects dual-axis vibration<br>• 316L stainless steel housing<br>• 150 mm (6 in) PVC cable with a 5-pin M12/Euro-style male quick disconnect (QD) |
| **QM30VT2-SS-9M** | • Vibration and temperature sensor, RS-485 Modbus interface<br>• Detects dual-axis vibration<br>• 316L stainless steel housing<br>• 9.1 m (30 ft) cable with flying leads |

| | | |
|---|---|---|
|  | **K50UX1CRA** | • Modbus Slave device via RS-485<br>• Range: 100 mm to 1 m (3.94 in to 39.4 in) |
| | **K50UX2CRA** | • Modbus Slave Device via RS-485<br>• Range: 300 mm to 3 m (11.8 in to 118 in) |
|  | **M12FTH3Q** | • Temperature and humidity sensor with RS-485 Modbus interface |
| | **M12FT3Q** | • Temperature sensor with RS-485 Modbus interface |
| | **GPS50M** | • 2.5 m positional accuracy<br>• IP69K per DIN40050<br>• 5-30 V DC Supply Voltage |

## 1.5.3 Thermistor, Pressure, Moisture, and CT Sensors

| | | |
|---|---|---|
|  | **BWA-625-10000-1-1-8-25** | • NoShok Series 625 Intrinsically Safe Pressure Transmitter, model 625-10000-1-1-8-25<br>• 0 to 10000 psig, 4–20 mA<br>• 1/2" NPT, M12 QD, FM and CSA approved |
|  | **BWA-ACC-SEN-SDI** | • Acclima SDI-12 Soil Moisture Transducer |
|  | **BWA-CURRENT-TRANSFORMER-150A** | • Split-Core Current Transformer<br>• 5–150 A Input,  0.333 V Output |
| | **BWA-CURRENT-TRANSFORMER-20A** | • Split-Core Current Transformer<br>• 5–20 A Input,  0.333 V Output |
|  | **BWA-PRESSURE-SENSOR-15L** | • 0-15 PSIG (10.5 m depth)<br>• 60 ft cable with vent tube |

# Sensors (continued)

| | | |
|---|---|---|
|  | **BWA-PRESSURE-SENSOR-50** | • 0–50 PSIG<br>• 1 meter flying leads<br>• 1/4"-18 NPT port |
| | **BWA-PRESSURE-SENSOR-500** | • 0–500 PSIS<br>• 1 meter flying leads |
| | **BWA-PRESSURE-SENSOR-3000** | • 0–3000 PSIS<br>• 1 meter flying leads |
|  | **BWA-S612-15-100** | • NoShok Series 612 Submersible Level Transmitter, model 612-15-1-1-N-100<br>• 0 to 15 psig, 100 foot cable |
|  | **BWA-THERMISTOR-001** | • NTC Thermistor<br>• 2.2 KOhms, +/-0.2%C, blue bead<br>• For models: DX80N9X2S2N2T/C, DX99N9X2S2N0T4X0A0, and DX99N9X1S2N0T4X0D0 |
| | **BWA-THERMISTOR-002** | • NTC Thermistor<br>• 10 KOhms, +/-0.2%C, black bead<br>• For Performance models -P1/C/E, and MultiHop models MH1/C/E- 2 pack |
|  | **BWA-THERMISTOR-PROBE-003** | • Temperature sensor with thermistor PS103G2<br>• Beta Value(K) 0–50°C: 3575, Base thermistor accuracy of 0.2%<br>• Operating Temperature Range: –20 °C to +105 °C (–4 °F to +221 °F)<br>• Maximum Power Rating: 30 mW at 25 °C; derated to 1 mW at 125 °C<br>• Dissipation Constant: 1 mW/°C,<br>• Stainless steel finish; PVC insulation |
|  | **FTH-FIL-001** | Filter for Temperature/Humidity Sensor Aluminum grill filter cap default filter |
|  | **FTH-FIL-002** | Filter for Temperature/Humidity Sensor stainless steel sintered to 10µm porosity for high dust environments |

# Solar Panels



| | |
|---|---|
| **BWA-SOLAR CNTRL-12V** | Solar Controller, 6 A Load Current, 12 V System Voltage, recommended for 20 W or less solar panel and a Sealed Lead Acid Battery (sold separately) |
| **BWA-SOLAR PANEL 20W** | Solar Panel, 12 V, 20 W, Multicrystalline, 573 × 357 × 30, "L" style mounting bracket included (does not include controller) |
| **BWA-SOLAR PANEL 3W** | Solar Panel, 12 V, 3 W, Multicrystalline, 188 × 195 × 15, Wall/Pole clamp style mounting bracket included (does not include controller) |
| **BWA-SOLAR PANEL 5W** | Solar Panel, 12 V, 5 W, Multicrystalline, 270 × 222 × 17, Wall/Pole clamp style mounting bracket included (does not include controller) |

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