# S15C-3CT IO-Link 3-Phase Current Monitoring Sensor Product Manual

Original Instructions
p/n: 256302 Rev. A
05-Jun-26
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Models ..... 3

# Chapter 1 Features



(20 amp current transformers shown)

- Connects to the three included current transformers and outputs the values to IO-Link process data
- Monitors AC current for various devices using current transformers
- Converts a high-voltage input to a proportional low-voltage, low-current signal for measuring and monitoring

## Models

| Model Name | Function | Current Transformers | Communication | Connector |
|---|---|---|---|---|
| S15C-3CT20A-KQ-1 | Converter | QTY: Three 20 A current transformers | IO-Link | Integral male/female 4-pin M12 quick-disconnect connector |
| S15C-3CT150A-KQ-1 | | QTY: Three 150 A current transformers | | |
| S15C-3CT600A-KQ-1 | | QTY: Three 600 A current transformers | | |

Split-core current transformers are used to monitor AC current for various devices. The current transformer input takes a high-voltage current input and produces a proportional low-voltage, low-current signal for measuring and monitoring. Split-core current transformers are ideal for installing onto existing electrical wiring because they can snap around the individual conductors without disconnecting any cables.

**NOTE:** Users can use any size current transformer rated up to a 655 A max rating, as long as the current transformer has a 333 mV AC output.


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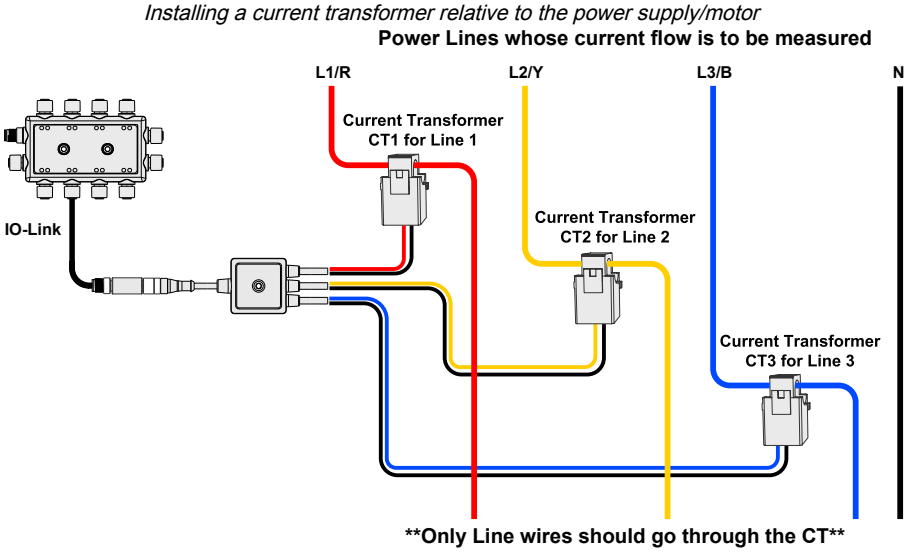
Wire the Current Transformer..... 5

# Chapter 2 Installing the Current Transformers

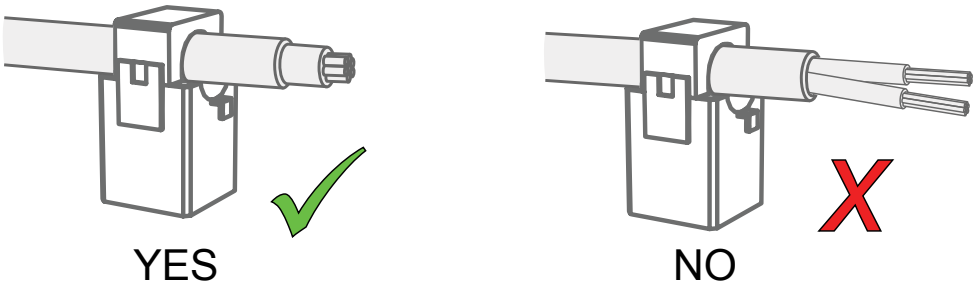
Observe the polarity when installing current transformers. Banner's current transformers indicate **k (S1)** as the source side and **l (S2)** as the load side, where source refers to the incoming power feed side to the device and the load side is the device side.

Banner's CTs have an etched arrow to indicate the directionality for installation (k (S1) → l (S2)). As shown in Installing a current transformer relative to the power supply/motor, the source is the AC power supply and the load is the Motor. The CT direction arrow must point toward the load. Banner's current transformers can be installed on any conductor in a 2- or 3-phase AC line. Current transformers should only be installed on a single conductor. For the correct installation, see Installing a single conductor on the current transformer.

*Installing a current transformer relative to the power supply/motor*




*Installing a single conductor on the current transformer*




The electrical power usage of a three-phase motor is calculated using the following formula:

$$P_{(KW)} = \frac{(\sqrt{3}) \times V_{RMS} \times I_{RMS} \times PF}{1000}$$

Where:

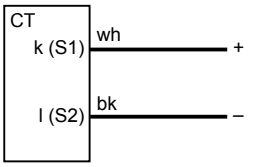
**Voltage ($V_{RMS}$)** = The RMS line-to-line voltage
**Current ($I_{RMS}$)** = The RMS line current, measured in amps
**Power Factor (PF)** = The efficiency of the power usage


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# Wire the Current Transformer

For more information on wiring and installing the current transformer, refer to the Split Core Current Transformer datasheet (p/n 212463).

*Current transformer wiring*

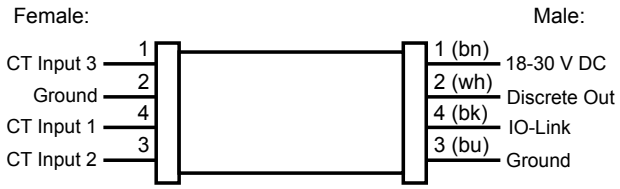


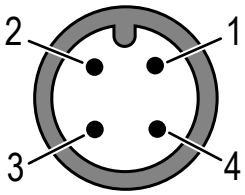
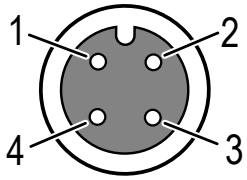

| Wire Color | Description |
|---|---|
| White | Input from CT - k (S1) |
| Black | CT ground - l (S2) |


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# Chapter 3 Converter Wiring




| Male (Gateway) | Female (Sensor) | Pin | Wire Color |
|---|---|---|---|
|  |  | 1 | Brown |
| | | 2 | White |
| | | 3 | Blue |
| | | 4 | Black |





| Female (Sensor) | Signal Description |
|---|---|
| Pin 1 | CT Input |
| Pin 2 | CT Ground |
| Pin 3 | CT Input |
| Pin 4 | CT Input |

| Male (IO-Link) | Signal Description |
|---|---|
| Pin 1 | 18 V DC to 30 V DC |
| Pin 2 | Discrete out |
| Pin 3 | Ground |
| Pin 4 | IO-Link |


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# Chapter 4 IO-Link Data Reference Guide

This document refers to the following IODD file: Banner_Engineering-S15C-3CT-KQ-20260113-IODD1.1.xml.

The IODD file and support files can be found on www.bannerengineering.com under the download section of the product family page.

# Communication Parameters

The following communication parameters are used.

| Parameter | Value |
|---|---|
| IO-Link revision | V1.1 |
| Process Data In length | 120 bit |
| Process Data Out length | N/A |
| Bit Rate | 38400 |
| Minimum cycle time | 4 ms |
| Port class | A |
| SIO mode | No |
| Smart sensor profile | Yes |
| Block parameterization | Yes |
| Data Storage | Yes |
| Device ID | 659486 |
| ISDU Supported | Yes |

# IO-Link Process Data In (Device to Master)

## Process Data Mode (1): Fast Profile (FP) Imperial Units

| Subindex | Name | Number of Bits |
|---|---|---|
| 1 | CT1: Amps RMS Value | 16 |
| 2 | CT1: Amps RMS Scale | 8 |
| 3 | CT1: Amps RMS Under Threshold | 1 |
| 4 | CT1: Amps RMS Over Threshold | 1 |
| 5 | CT2: Amps RMS Value | 16 |
| 6 | CT2: Amps RMS Scale | 8 |
| 7 | CT2: Amps RMS Under Threshold | 1 |
| 8 | CT2: Amps RMS Over Threshold | 1 |
| 9 | CT3: Amps RMS Value | 16 |
| 10 | CT3: Amps RMS Scale | 8 |

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| Subindex | Name | Number of Bits |
|---|---|---|
| 11 | CT3: Amps RMS Under Threshold | 1 |
| 12 | CT3: Amps RMS Over Threshold | 1 |

| Octet 0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | - | - | - | - | - | - | - | - |
| Bit Offset | 111 | 110 | 109 | 108 | 107 | 106 | 105 | 104 |

| Octet 1 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | - | - | - | - | - | - | - | - |
| Bit Offset | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 |

| Octet 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| Bit Offset | 95 | 94 | 93 | 92 | 91 | 90 | 89 | 88 |

| Octet 3 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| Bit Offset | 87 | 86 | 85 | 84 | 83 | 82 | 81 | 80 |

| Octet 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Bit Offset | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 |

| Octet 5 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | - | - | - | - | - | - | 11 | 12 |
| Bit Offset | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 |

| Octet 6 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Bit Offset | 63 | 62 | 61 | 60 | 59 | 58 | 57 | 56 |

| Octet 7 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Bit Offset | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 |

| Octet 8 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Bit Offset | 47 | 46 | 45 | 44 | 43 | 42 | 41 | 40 |

| Octet 9 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | - | - | - | - | - | - | 7 | 8 |
| Bit Offset | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 |


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| Octet 10 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Bit Offset | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 |

| Octet 11 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Bit Offset | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |

| Octet 12 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Bit Offset | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 |

| Octet 13 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | - | - | - | - | - | - | 3 | 4 |
| Bit Offset | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |

## Process Data Mode (2): Fast Profile (FP) Imperial Units

| Subindex | Name | Number of Bits |
|---|---|---|
| 1 | CT1: Amps RMS Value | 32 |
| 2 | CT1: Amps RMS Scale | 32 |
| 3 | CT1: Amps RMS Under Threshold | 32 |
| 4 | CT1: Amps RMS Over Threshold | 1 |
| 5 | CT2: Amps RMS Value | 1 |
| 6 | CT2: Amps RMS Scale | 1 |
| 7 | CT2: Amps RMS Under Threshold | 1 |
| 8 | CT2: Amps RMS Over Threshold | 1 |
| 9 | CT3: Amps RMS Value | 1 |

| Octet 0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | - | - | - | - | - | - | - | - |
| Bit Offset | 111 | 110 | 109 | 108 | 107 | 106 | 105 | 104 |

| Octet 1 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | - | - | 9 | 8 | 7 | 6 | 5 | 4 |
| Bit Offset | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 |

| Octet 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Bit Offset | 95 | 94 | 93 | 92 | 91 | 90 | 89 | 88 |

| Octet 3 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Bit Offset | 87 | 86 | 85 | 84 | 83 | 82 | 81 | 80 |


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| Octet 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Bit Offset | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 |

| Octet 5 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Bit Offset | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 |

| Octet 6 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Bit Offset | 63 | 62 | 61 | 60 | 59 | 58 | 57 | 56 |

| Octet 7 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Bit Offset | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 |

| Octet 8 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Bit Offset | 47 | 46 | 45 | 44 | 43 | 42 | 41 | 40 |

| Octet 9 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Bit Offset | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 |

| Octet 10 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Bit Offset | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 |

| Octet 11 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Bit Offset | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |

| Octet 12 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Bit Offset | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 |

| Octet 13 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Subindex | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Bit Offset | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |

# IO-Link Process Data Out (Master to Device)

Not applicable.


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# Parameters Set Using IO-Link

These parameters can be read from and/or written to an IO-Link model of the S15C-3CTxxA-KQ-1. Also included is information about whether the variable in question is saved during Data Storage and whether the variable came from the IO-Link Smart Sensor Profile. Unlike Process Data In, which is transmitted from the IO-Link device to the IO-Link master cyclically, these parameters are read or written acyclically as needed.

| Index | Subindex | Name | Length | Value Range | Default | Access Rights | Data Storage? | Smart Sensor Profile |
|---|---|---|---|---|---|---|---|---|
| 0 | 1-16 | Direct Parameter Page 1 (incl. Vendor ID & Device ID) | | | | RO | | |
| 2 | | System Command | | 126 = Locator Start<br>127 = Locator Stop<br>129 = Application Reset<br>131 = Back to Box | | WO | | Y |
| 16 | | Vendor Name string | | Banner Engineering Corporation | | RO | | |
| 17 | | Vendor Text string | | More Sensors. More Solutions. | | RO | | |
| 18 | | Product Name string | | S15C-3CTxxA-KQ-1 | | RO | | |
| 19 | | Product ID string | | S15C-3CTxxA-KQ-1 | | RO | | |
| 20 | | Product Text string | | S15C-3CTxxA-KQ-1 | | RO | | Y |
| 21 | | Serial Number | | | | RO | | |
| 22 | | Hardware Version | | | | RO | | |
| 23 | | Firmware Version | | | | RO | | Y |
| 24 | | App Specific Tag (user-defined) | | More Sensors. More Solutions. | | RW | Y | Y |
| 25 | | Function Tag | | More Sensors. More Solutions. | | RW | Y | Y |
| 26 | | Location Tag | | More Sensors. More Solutions. | | RW | Y | Y |
| 32 | | Error Count | 16-bit Uinteger | | | RO | | |
| 36 | | Device Status | 8-bit Uinteger | 0 = Device is OK<br>1 = Maintenance required<br>2 = Out of specification<br>3 = Functional check<br>4 = Failure<br>5..255 Reserved | | RO | | |
| 37 | | Detailed Device Status | Array[4] of 3-octet | | | RO | | |
| **69** | | **All-Time Run Time** | | | | | | |
| 69 | 1 | Run counter (0.25hr) | 32-bit Uinteger | 0..2147483647 | | RO | Y | |
| **70** | | **Resettable Run Time** | | | | | | |
| 70 | 1 | Run counter (0.25hr) | 32-bit Uinteger | 0..2147483647 | 0 | RW | | |
| **71** | | **Alarm Configuration** | | | | | | |
| 71 | 1 | CT1: Amps RMS Low Threshold | Float32 | | 0 | RW | Y | |
| 71 | 2 | CT1: Amps RMS High Threshold | Float32 | | 600 | RW | Y | |

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| Index | Subindex | Name | Length | Value Range | Default | Access Rights | Data Storage? | Smart Sensor Profile |
|---|---|---|---|---|---|---|---|---|
| 71 | 3 | CT1: Amps RMS On Delay | Float32 | | 0 | RW | Y | |
| 71 | 4 | CT1: Amps RMS Off Delay | Float32 | | 0 | RW | Y | |
| 71 | 5 | CT2: Amps RMS Low Threshold | Float32 | | 0 | RW | Y | |
| 71 | 6 | CT2: Amps RMS High Threshold | Float32 | | 600 | RW | Y | |
| 71 | 7 | CT2: Amps RMS On Delay | Float32 | | 0 | RW | Y | |
| 71 | 8 | CT2: Amps RMS Off Delay | Float32 | | 0 | RW | Y | |
| 71 | 9 | CT3: Amps RMS Low Threshold | Float32 | | 0 | RW | Y | |
| 71 | 10 | CT3: Amps RMS High Threshold | Float32 | | 600 | RW | Y | |
| 71 | 11 | CT3: Amps RMS On Delay | Float32 | | 0 | RW | Y | |
| 71 | 12 | CT3: Amps RMS Off Delay | Float32 | | 0 | RW | Y | |
| **72** | | **Alarm Counter** | | | | | | |
| 72 | 1 | CT1: Amps RMS Low Counter | 16-bit UInteger | | 0 | RW | Y | |
| 72 | 2 | CT1: Amps RMS High Counter | 16-bit UInteger | | 0 | RW | Y | |
| 72 | 3 | CT2: Amps RMS Low Counter | 16-bit UInteger | | 0 | RW | Y | |
| 72 | 4 | CT2: Amps RMS High Counter | 16-bit UInteger | | 0 | RW | Y | |
| 72 | 5 | CT3: Amps RMS Low Counter | 16-bit UInteger | | 0 | RW | Y | |
| 72 | 6 | CT3: Amps RMS High Counter | 16-bit UInteger | | 0 | RW | Y | |
| **80** | | **Process Data Mode** | | | | | | |
| 80 | 1 | Defines the formatting of the Process Data | 8-bit Uinteger | 1 = Smart Sensor Profile, 2 = Floating Point Profile | 1 | RW | Y | |
| **81** | | **Wire Mode** | | | | | | |
| 81 | 1 | Output Configuration | 8-bit Uinteger | 0 = BannerBus<br>1 = NPN Discrete Output<br>2 = PNP Discrete Output | 0 | RW | Y | |
| **82** | | **Device Configuration** | | | | | | |
| 82 | 1 | Sample Rate (10ms) | 32-bit Record | | | RW | Y | |
| 82 | 2 | Frequency (Hz) | 8-bit Record | 1 = 60 Hz, 2 = 50 Hz | | RW | Y | |
| 82 | 3 | CT Rating (Amps) | 16-bit Record | | | RW | Y | |

# IO-Link Events

Events are acyclic transmissions from the IO-Link device to the IO-Link master. Events can be error messages and/or warning or maintenance data.

| Code | Type | Name | Description |
|---|---|---|---|
| 0 (0x0000) | Notification | No Malfunction | - |
| 20480 (0x5000) | Error | Device hardware fault | Device Exchange |


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Chapter Contents

# Chapter 5 Status Indicators

**Power LED Indicator (Green)**

- Solid Green = Power On
- Off = Power Off

**IO-Link Communication LED Indicator (Amber)**

- Flashing Amber = IO-Link communications are active
- Off = IO-Link communications are not present


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# Chapter 6 Specifications

**Supply Voltage**
18 V DC to 30 V DC at 50 mA maximum

**Power Pass-Through Current**
4 A maximum

**Supply Protection Circuitry**
Protected against reverse polarity and transient voltages

**Leakage Current Immunity**
400 µA

**Resolution**
12-bits

**Current Transformer**
Electrical:

Rated Input: 0-20 A (CT20A), 0-150 A (CT150A), or 0-600 A (CT600A), depending on the model
Rated Output: 0.333 V AC
Ratio: ≤ ± 1.0%
Phase Angle: ≤ ± 60 min
Dielectric Strength: 2.5 kV/1 mA/1 min
Insulation Resistance: DC 500 V/100 MΩ min

Mechanical:

Case: PA / UL94-V0
Bobbin: PBT
Core: Silicon Steel
–25 °C to +75 °C (–13 °F to +167 °F)
≤ 85% maximum relative humidity (non-condensing)

For more information, refer to the Split Core Current Transformer datasheet (p/n 212463)

**Required Overcurrent Protection**

**WARNING:** Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.

Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.

Supply wiring leads < 24 AWG shall not be spliced.

For additional product support, go to www.bannerengineering.com.

**Indicators**
Green power
Amber IO-Link communications

**Connections**
Integral male/female 4-pin M12 quick-disconnect connector

**Construction**
Coupling Material: Nickel-plated brass
Connector Body: PVC translucent black

**Vibration and Mechanical Shock**
Meets IEC 60068-2-6 requirements (Vibration: 10 Hz to 55 Hz, 0.5 mm amplitude, 5 minutes sweep, 30 minutes dwell)
Meets IEC 60068-2-27 requirements (Shock: 15G 11 ms duration, half sine wave)

**Environmental Rating**
IP65, IP67, IP68
UL Type 1

**Operating Conditions**
**Temperature:** –40 °C to +70 °C (–40 °F to +158 °F)
90% at +70 °C maximum relative humidity (non-condensing)
**Storage Temperature:** –40 °C to +80 °C (–40 °F to +176 °F)

**Product Identification**

SNAP SIGNAL

| Supply Wiring (AWG) | Required Overcurrent Protection (A) | Supply Wiring (AWG) | Required Overcurrent Protection (A) |
|---|---|---|---|
| 20 | 5.0 | 26 | 1.0 |
| 22 | 3.0 | 28 | 0.8 |
| 24 | 2.0 | 30 | 0.5 |

**Certifications**

Banner Engineering BV
Park Lane, Culliganlaan 2F bus 3
1831 Diegem, BELGIUM

Turck Banner LTD Blenheim House
Blenheim Court
Wickford, Essex SS11 8YT
GREAT BRITAIN

c UL us LISTED

# FCC Part 15 Class B for Unintentional Radiators

(Part 15.105(b)) This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:


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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

(Part 15.21) Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

# Industry Canada ICES-003(B)

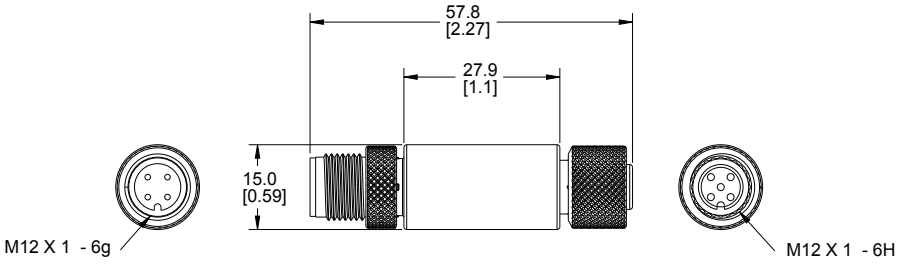
This device complies with CAN ICES-3 (B)/NMB-3(B). Operation is subject to the following two conditions: 1) This device may not cause harmful interference; and 2) This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme à la norme NMB-3(B). Le fonctionnement est soumis aux deux conditions suivantes : (1) ce dispositif ne peut pas occasionner d'interférences, et (2) il doit tolérer toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité du dispositif.

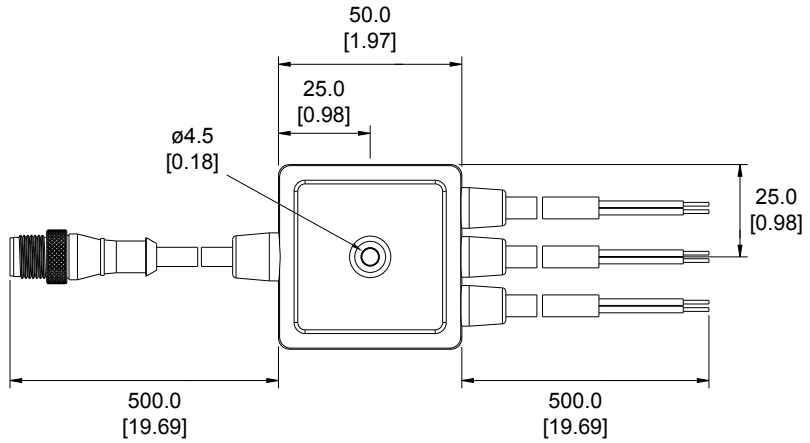
# Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.

*Converter Dimensions*



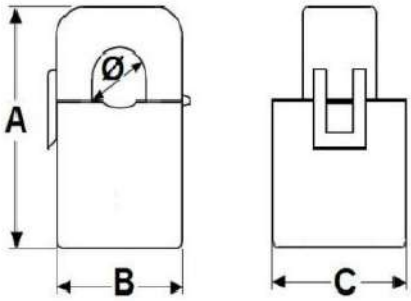

*Molded Junction Block Dimensions*





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*Current Transformer Dimensions*




| Model | Diameter | A | B | C |
|---|---|---|---|---|
| **CT20A** | 10 mm (0.39 in) | 41 mm (1.61 in) | 24 mm (0.94 in) | 26.5 mm (1.04 in) |
| **CT150A** | 16 mm (0.63 in) | 45.5 mm (1.79 in) | 29 mm (1.14 in) | 31.5 mm (1.24 in) |
| **CT600A** | 34.6 mm (1.36 in) | 99.2 mm (3.91 in) | 68.7 mm (2.7 in) | 42 mm (1.65 in) |

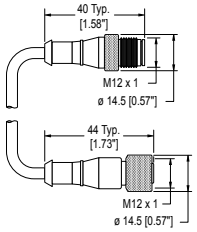
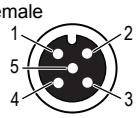
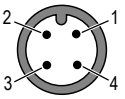

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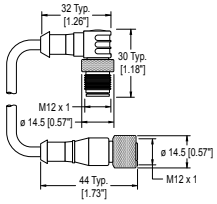
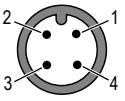
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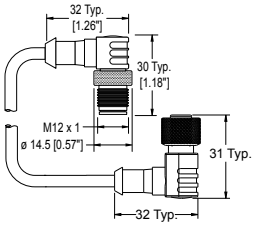
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# Chapter 7 Accessories

## Cordsets

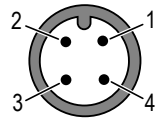
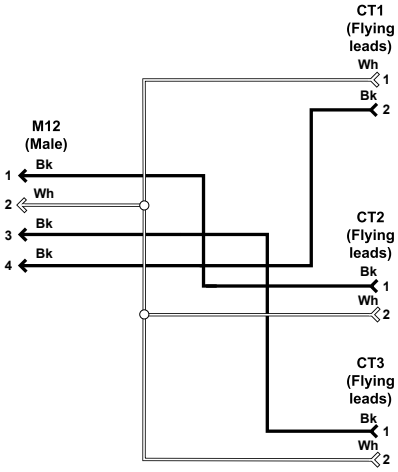
| 4-pin A-Code Double-Ended M12 Female to M12 Male Cordsets (datasheet p/n 236186) | | | | |
|---|---|---|---|---|
| **Model** | **Length** | **Dimensions (mm)** | **Pinouts** | |
| **BC-M12F4-M12M4-22-1** | 1 m (3.28 ft) |  | Female<br><br>Male<br> | 1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Unused<br>c UL us LISTED |
| **BC-M12F4-M12M4-22-2** | 2 m (6.56 ft) | | | |
| **BC-M12F4-M12M4-22-3** | 3 m (9.84 ft) | | | |
| **BC-M12F4-M12M4-22-4** | 4 m (13.12 ft) | | | |
| **BC-M12F4-M12M4-22-5** | 5 m (16.4 ft) | | | |
| **BC-M12F4-M12M4-22-10** | 10 m (30.81 ft) | | | |
| **BC-M12F4-M12M4-22-15** | 15 m (49.2 ft) | | | |

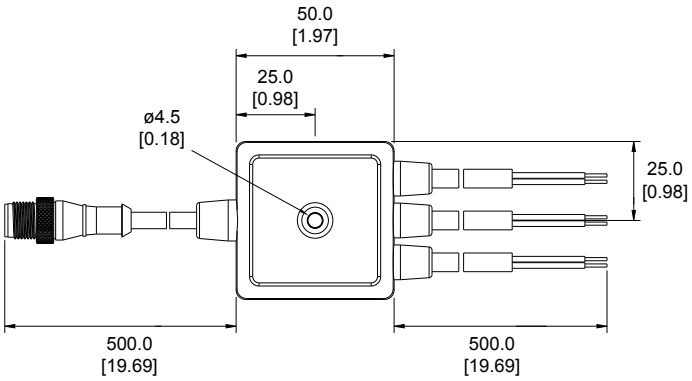
| 4-pin A-Code Double-Ended M12 Female to M12 Male Right-Angle Cordsets (datasheet p/n 236186) | | | | |
|---|---|---|---|---|
| **Model** | **Length** | **Dimensions (mm)** | **Pinouts** | |
| **BC-M12F4-M12M4A-22-1** | 1 m (3.28 ft) |  | Female<br><br>Male<br> | 1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Unused<br>c UL us LISTED |
| **BC-M12F4-M12M4A-22-2** | 2 m (6.56 ft) | | | |
| **BC-M12F4-M12M4A-22-5** | 5 m (16.4 ft) | | | |
| **BC-M12F4-M12M4A-22-8** | 8 m (26.25 ft) | | | |
| **BC-M12F4-M12M4A-22-10** | 10 m (30.81 ft) | | | |
| **BC-M12F4-M12M4A-22-15** | 15 m (49.2 ft) | | | |

| 4-pin A-Code Double-Ended M12 Female Right-Angle to M12 Male Right-Angle Cordsets (datasheet p/n 236186) | | | | |
|---|---|---|---|---|
| **Model** | **Length** | **Dimensions (mm)** | **Pinouts** | |
| **BC-M12F4A-M12M4A-22-0.3** | 0.3 m (1 ft) |  | Female<br><br>Male<br> | 1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Unused<br>c UL us LISTED |
| **BC-M12F4A-M12M4A-22-1** | 1 m (3.28 ft) | | | |
| **BC-M12F4A-M12M4A-22-2** | 2 m (6.56 ft) | | | |
| **BC-M12F4A-M12M4A-22-5** | 5 m (16.4 ft) | | | |
| **BC-M12F4A-M12M4A-22-8** | 8 m (26.25 ft) | | | |
| **BC-M12F4A-M12M4A-22-10** | 10 m (30.81 ft) | | | |
| **BC-M12F4A-M12M4A-22-15** | 15 m (49.2 ft) | | | |


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# Molded Junction Block

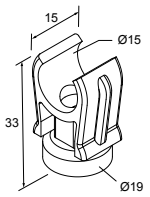
| 4-Pin M12 Male to Three-Cable Exit Molded Junction Block | | | | |
|---|---|---|---|---|
| **Model** | **Trunk (Male)** | **Branches (Female)** | **Pinout (Male)** | **Wiring** |
| **R50-M12M4-0.5-3X0.5-3CT** | 500 mm (19.69 in) | 3 × 500 mm (19.69 in) |  |  |




# Bracket

**LMBS15MAG**

- Attaches to S15 housing
- White polypropylene
- 11.8 kg (26 lb) pull force
- One piece
- CAD Files: DXF, PDF, IGS, STP





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