



S15C-3CT Modbus 3-Phase Current Monitoring Sensor Product Manual

Original Instructions

p/n: 256303 Rev. A

05-Jun-26

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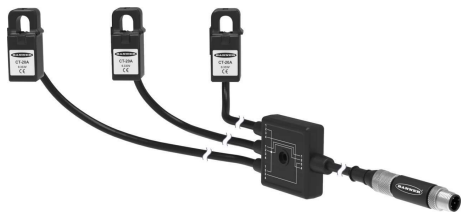
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Chapter Contents

Models 3

Chapter 1 Features



(20 amp current transformers shown)

- Connects to the three included current transformers and outputs the values to Modbus registers
- 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-MQ-1	Converter	QTY: Three 20 A current transformers	Modbus	Integral male/female 4-pin M12 quick-disconnect connector
S15C-3CT150A-MQ-1		QTY: Three 150 A current transformers		
S15C-3CT600A-MQ-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.

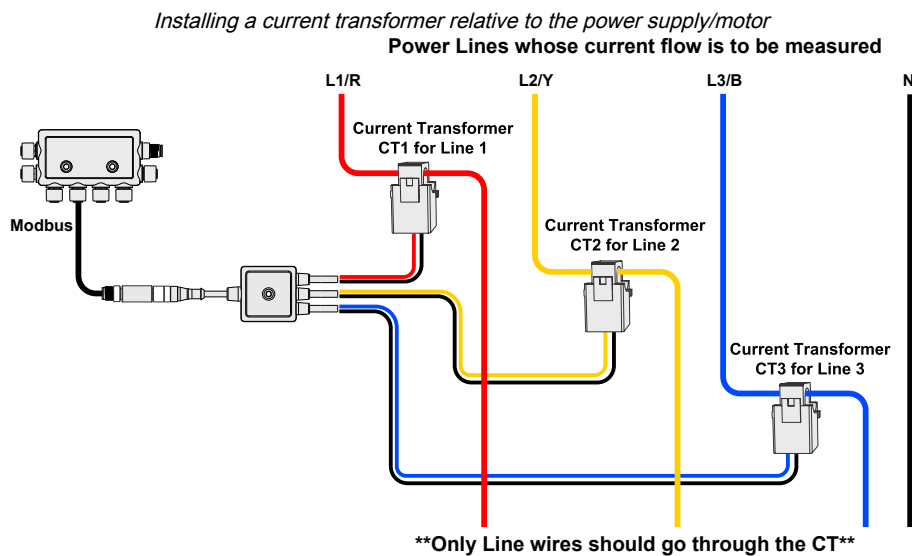
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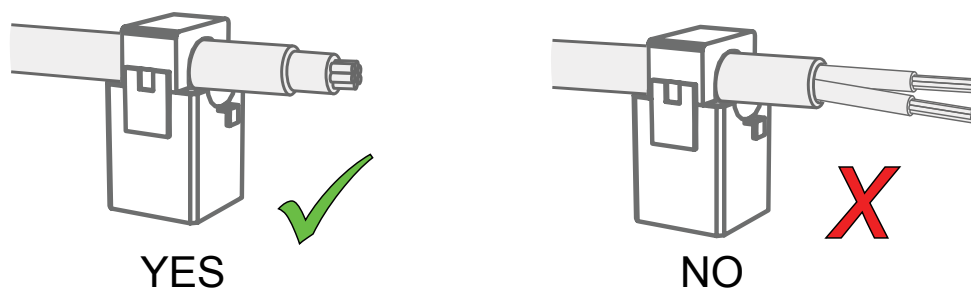
Chapter 2 Installing the Current Transformers

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 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

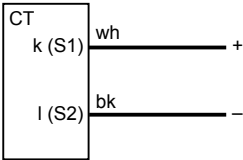
Current (I_{RMS}) = The RMS line current, measured in amps

Power Factor (PF) = The efficiency of the power usage

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](#)).

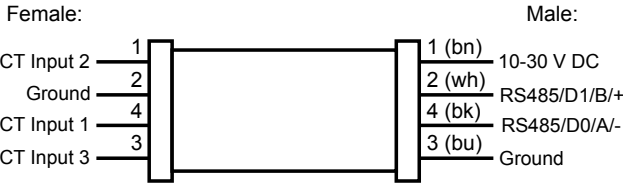
Current transformer wiring



Wire Color	Description
White	Input from CT - k (S1)
Black	CT ground - I (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

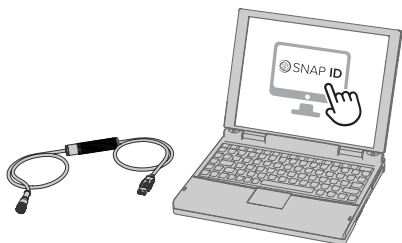
Male (Modbus)	Signal Description
Pin 1	10 V DC to 30 V DC
Pin 2	RS485/D1/B/+
Pin 3	Ground
Pin 4	RS485/D0/A/-

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Chapter 4 Configuration Instructions

SNAP SIGNAL® Configuration Software



Banner's SNAP SIGNAL® Configuration Software offers an easy way to configure and demonstrate Banner Modbus devices.

Users have full control of device configuration, the ability to visualize device data, and to demonstrate device features. The easy-to-use software provides a variety of tools and works with Banner Modbus devices.

Download the free SNAP SIGNAL Configuration Software at <https://www.bannerengineering.com/sg/en/products/software/snap-signal-configuration-software.html>.

For instructions on how to use the software to configure Modbus devices, use the SNAP SIGNAL Configuration Software Instruction Manual available from the software by going to **Help > Documentation**. The SNAP SIGNAL Configuration Software Instruction Manual can also be downloaded directly from www.bannerengineering.com.

Modbus Register Map

Device Information

Modbus Register Address	Description	I/O Range	Comments	Default	Access	Notes
40606-40615	Banner Name	0..65535		Banner Engineering	RO	(9 words / 18 Characters)
40616-40631	Product Name	0..65535		S15C-3CT20 / 150 / 600A-MQ	RO	(16 words / 32 Characters)
40632	Item H	0..65535	819353 / 54 / 55 split into two 16-bit registers	12	RO	Banner Item Number
40633	Item L	0..65535		32921 / 22 / 23	RO	
40634	Serial Number H	0..65535			RO	Serial Number is split into (4) 16-bit registers
40635	Serial Number	0..65535			RO	
40636	Serial Number	0..65535			RO	
40637	Serial Number L	0..65535			RO	
40644-40659	User-Defined Tag	0..65535	User writable space	More Sensors. More Solutions.	RW	(16 words / 32 Characters)
40680	Discovery	0..1	0 = Disabled 1 = Enabled		RW	Flash all LEDs to find hub

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Modbus Register Address	Description	I/O Range	Comments	Default	Access	Notes
40681	All-Time Run Time H	0..65535			RO	Upper 16 of 32 bits
40682	All-Time Run Time L	0..65535			RO	Lower 16 of 32 bits
40683	Resettable Run Time H	0..65535			RW	Upper 16 of 32 bits
40684	Resettable Run Time L	0..65535			RW	Lower 16 of 32 bits

Modbus Configuration

Modbus Register Address	Description	I/O Range	Comments	Default	Access	Notes
40601	Baud Rate	0 = 9.6k 1 = 19.2k 2 = 38.4k	0 = 9600 1 = 19200 2 = 38400	1	RW	
40602	Parity	0 = None 1 = Odd 2 = Even	0 = None 1 = Odd 2 = Even	0	RW	
40603	Address	1-254		1	RW	
40604	Reserved (cannot be read or written)	None		-	-	
40605	Restore Factory Configuration	0 = No Operation 1 = Restore		-	WO	

CT States

Modbus Register Address	Description	I/O Range	Comments	Default	Access	Notes
40001	CT1: Value	0..65535	AC RMS Current (A) = Register Value / 100	0-2000, 0-15000, or 0-60000	RO	
40002	CT1: Alarm	0..1	0 = Within threshold range 1 = Out of threshold range		RO	
40003	CT1: Error	0..2	STATUS_ERROR_TYPE_NO_ERROR = 0 STATUS_ERROR_TYPE_BELOW_MIN = 1 STATUS_ERROR_TYPE_ABOVE_MAX = 2		RO	
40004	CT2: Value	0..65535	AC RMS Current (A) = Register Value / 100	0-2000, 0-15000, or 0-60000	RO	
40005	CT2: Alarm	0..1	0 = Within threshold range 1 = Out of threshold range		RO	
40006	CT2: Error	0..2	STATUS_ERROR_TYPE_NO_ERROR = 0 STATUS_ERROR_TYPE_BELOW_MIN = 1 STATUS_ERROR_TYPE_ABOVE_MAX = 2		RO	

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Modbus Register Address	Description	I/O Range	Comments	Default	Access	Notes
40007	CT3: Value	0..65535	AC RMS Current (A) = Register Value / 100	0-2000, 0-15000, or 0-60000	RO	
40008	CT3: Alarm	0..1	0 = Within threshold range 1 = Out of threshold range		RO	
40009	CT3: Error	0..2	STATUS_ERROR_TYPE_NO_ERROR = 0 STATUS_ERROR_TYPE_BELOW_MIN = 1 STATUS_ERROR_TYPE_ABOVE_MAX = 2		RO	

FIFO List

Modbus Register Address	Description	I/O Range	Comments	Default	Access	Notes
CT1						
40801	CT1 FIFO Max	0..65535	FIFO maximum		RO	
40802	CT1 FIFO Min	0..65535	FIFO minimum		RO	
40803	CT1 FIFO Mean	0..65535	FIFO mean		RO	
40811	FIFO List	0..65535	FIFO 1		RO	NEWEST
40812	FIFO List	0..65535	FIFO 2		RO	
40813	FIFO List	0..65535	FIFO 3		RO	
40814	FIFO List	0..65535	FIFO 4		RO	
40815	FIFO List	0..65535	FIFO 5		RO	
40816	FIFO List	0..65535	FIFO 6		RO	
40817	FIFO List	0..65535	FIFO 7		RO	
40818	FIFO List	0..65535	FIFO 8		RO	
40819	FIFO List	0..65535	FIFO 9		RO	
40820	FIFO List	0..65535	FIFO 10		RO	OLDEST
CT2						
40821	CT2 FIFO Max	0..65535	FIFO maximum		RO	
40822	CT2 FIFO Min	0..65535	FIFO minimum		RO	
40823	CT2 FIFO Mean	0..65535	FIFO mean		RO	
40831	FIFO List	0..65535	FIFO 1		RO	NEWEST
40832	FIFO List	0..65535	FIFO 2		RO	
40833	FIFO List	0..65535	FIFO 3		RO	
40834	FIFO List	0..65535	FIFO 4		RO	
40835	FIFO List	0..65535	FIFO 5		RO	
40836	FIFO List	0..65535	FIFO 6		RO	
40837	FIFO List	0..65535	FIFO 7		RO	
40838	FIFO List	0..65535	FIFO 8		RO	
40839	FIFO List	0..65535	FIFO 9		RO	
40840	FIFO List	0..65535	FIFO 10		RO	OLDEST
CT3						
40841	CT3 FIFO Max	0..65535	FIFO maximum		RO	

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Modbus Register Address	Description	I/O Range	Comments	Default	Access	Notes
40842	CT3 FIFO Min	0..65535	FIFO minimum		RO	
40843	CT3 FIFO Mean	0..65535	FIFO mean		RO	
40851	FIFO List	0..65535	FIFO 1		RO	NEWEST
40852	FIFO List	0..65535	FIFO 2		RO	
40853	FIFO List	0..65535	FIFO 3		RO	
40854	FIFO List	0..65535	FIFO 4		RO	
40855	FIFO List	0..65535	FIFO 5		RO	
40856	FIFO List	0..65535	FIFO 6		RO	
40857	FIFO List	0..65535	FIFO 7		RO	
40858	FIFO List	0..65535	FIFO 8		RO	
40859	FIFO List	0..65535	FIFO 9		RO	
40860	FIFO List	0..65535	FIFO 10		RO	OLDEST

IO Data Rate

Modbus Register Address	Description	I/O Range	Comments	Default	Access	Notes
41201	Sample IO	0..65535	Sample interval time for IO. Increments of 10 ms	100 (1 second)	RW	
41204	CT1 Minimum Current Alarm	0..65535	Minimum analog value for data read	0	RW	CT1
41205	CT1 Maximum Current Alarm	0..65535	Max analog value for data read	20, 150, or 600	RW	CT1
41206	CT2 Minimum Current Alarm	0..65535	Minimum analog value for data read	0	RW	CT2
41207	CT2 Maximum Current Alarm	0..65535	Max analog value for data read	20, 150, or 600	RW	CT2
41208	CT3 Minimum Current Alarm	0..65535	Minimum analog value for data read	0	RW	CT3
41209	CT3 Maximum Current Alarm	0..65535	Max analog value for data read	20, 150, or 600	RW	CT3

CT Type Input

Modbus Register Address	Description	I/O Range	Comments	Default	Access	Notes
41011	AC Line Frequency	1 = 60 Hz 2 = 50 Hz	1 = 60 Hz 2 = 50 Hz	1	RW	
41015	CT Amp value	0..655	The amp value of the transformer used	20, 150, or 600	RW	

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Chapter 5 Status Indicators

Power LED Indicator (Green)

- Solid Green = Power On
- Off = Power Off

Modbus Communication LED Indicator (Amber)

- Flashing Amber = Modbus communications are active
- Off = Modbus communications are not present

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Chapter 6 Specifications

Supply Voltage

10 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 Immunity400 μ A**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: $\leq \pm 1.0\%$
 Phase Angle: $\leq \pm 60$ min
 Dielectric Strength: 2.5 kV/1 mA/1 min
 Insulation Resistance: DC 500 V/100 M Ω min

Mechanical:

Case: PA / UL94-V0
 Bobbin: PBT
 Core: Silicon Steel
 -25°C to $+75^{\circ}\text{C}$ (-13°F to $+167^{\circ}\text{F}$)
 $\leq 85\%$ 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 Modbus 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 $+70^{\circ}\text{C}$ (-40°F to $+158^{\circ}\text{F}$)90% at $+70^{\circ}\text{C}$ maximum relative humidity (non-condensing)**Storage Temperature:** -40°C to $+80^{\circ}\text{C}$ (-40°F to $+176^{\circ}\text{F}$)**Product Identification**

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



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:

- 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.

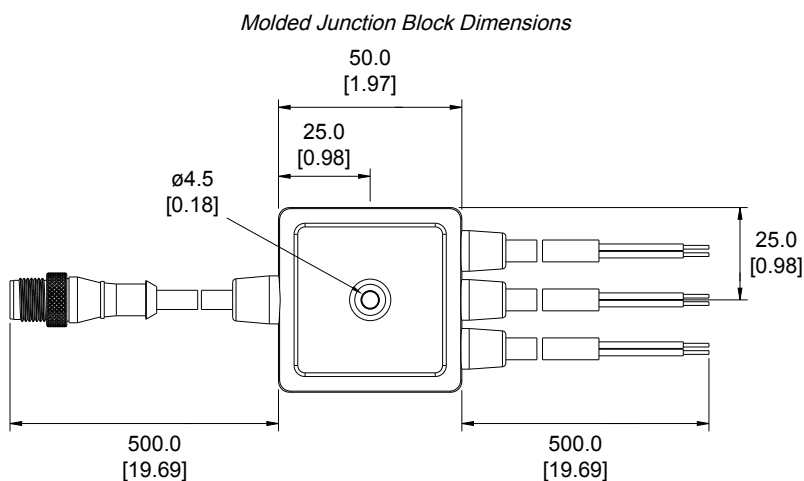
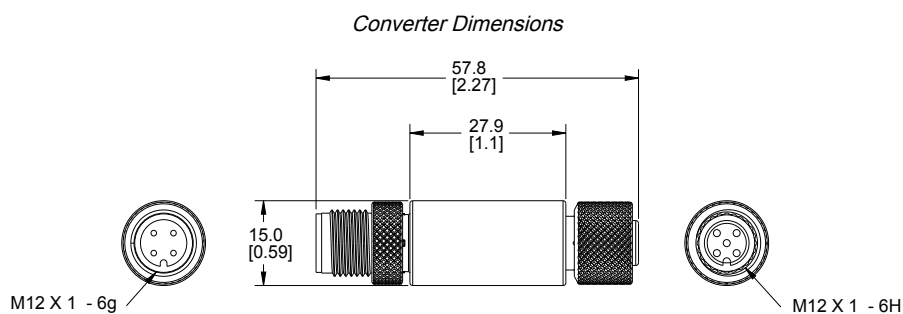
Industry Canada ICES-003(B)

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.

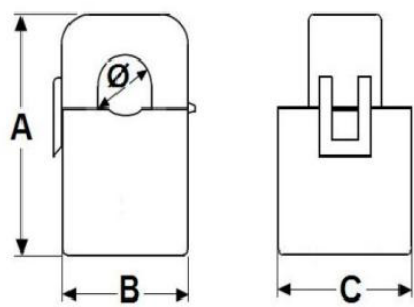
Cet appareil est conforme à la norme NMB-3(B). Le fonctionnement est soumis aux deux conditions suivantes : (1) ce dispositif ne peut pas occasionner d'interférences, et (2) il doit tolérer toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité du dispositif.

Dimensions

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



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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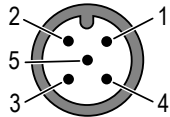
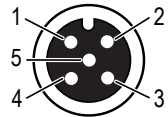
Chapter 7 Accessories

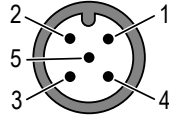
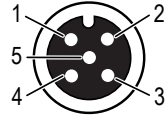
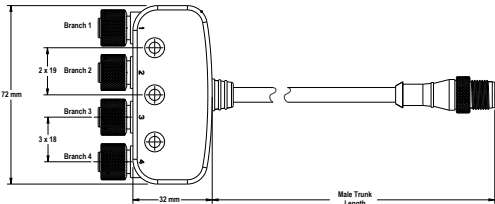
Cordsets

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 Male 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Unused 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 Male 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Unused 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)			

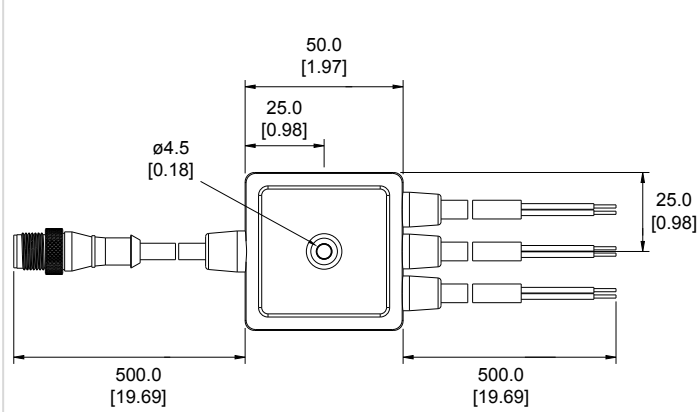
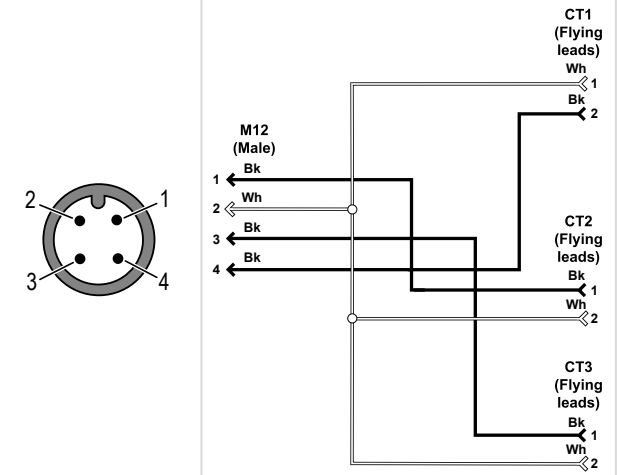
4-pin A-Code Double-Ended M12 Female Right-Angle to M12 Male Right-Angle Cordsets (datasheet p/n 236186)				
Model	Length	Dimensions (mm)	Pinouts	
BC-M12F4A-M12M4A-22-0.3	0.3 m (1 ft)		Female Male 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Unused US LISTED	
BC-M12F4A-M12M4A-22-1	1 m (3.28 ft)			
BC-M12F4A-M12M4A-22-2	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)			

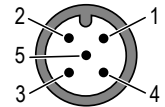
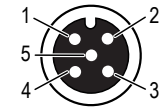
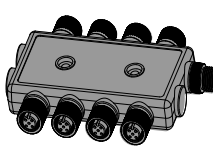
5-Pin M12 Female to M12 Male Splitter Tee			
Model		Pinout (Male)	Pinout (Female)
CSB-M1250M1250-T - Two 5-pin M12 female quick-disconnect connectors - One 5-pin M12 male quick-disconnect connector - Parallel wiring		 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray	 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray

5-Pin Double-Ended M12 Female to M12 Male Flat Junction Splitter Cordsets			
Model	Description	Pinout (Male)	Pinout (Female)
CSB4-M1251M1250	Four (no cable) 5-pin M12 female quick-disconnect connectors One 0.3 m (0.98 ft) cable with a 5-pin M12 male quick-disconnect connector Parallel wiring	 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray	 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
			

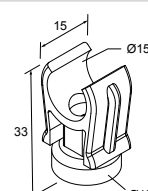
4-Pin M12 Female RS-485 to USB Adapter Cordset, with Wall Plug				
Model	Length	Style	Dimensions	Pinout (Female)
BWA-UCT-900	1 m (3.28 ft)	Straight		 1 = Brown 2 = White 3 = Blue 4 = Black

Molded Junction Blocks

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)		
				

Model		Pinout (Male)	Pinout (Female)
R50-4M125-M125Q-P Molded Junction Block - Four integral 5-pin M12 female quick-disconnect connectors - One integral 5-pin M12 male quick-disconnect connector - Parallel wiring - Product documentation (p/n 227974)			
R95-8M125-M125Q-P Molded Junction Block - Eight integral 5-pin M12 female quick-disconnect connectors - One integral 5-pin M12 male quick-disconnect connector - Parallel wiring - Product documentation (p/n 227974)		1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray	1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray

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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Chapter 8 Product Support and Maintenance

Clean with Mild Detergent and Warm Water

Wipe down the device with a soft cloth dampened with a mild detergent and warm water solution. Do not use any other chemicals for cleaning.

Repairs and Translations (No Field-Replaceable Parts)

English

Contact Banner Engineering for troubleshooting of this device. **Do not attempt any repairs to this Banner device; it contains no field-replaceable parts or components.** If the device, device part, or device component is determined to be defective by a Banner Applications Engineer, they will advise you of Banner's RMA (Return Merchandise Authorization) procedure.

IMPORTANT: If instructed to return the device, pack it with care. Damage that occurs in return shipping is not covered by warranty.

Obtain assistance with product repairs by contacting your local Banner Engineering Corp distributor or by calling Banner directly at (763) 544-3164. Access literature translated into your native language on the Banner website at www.bannerengineering.com or contact Banner directly at (763) 544-3164.

Deutsch

Wenden Sie sich zur Fehlerbehebung dieses Geräts an Banner Engineering. **Versuchen Sie nicht, Reparaturen an diesem Banner-Gerät vorzunehmen. Das Gerät enthält keine am Einsatzort auszuwechselnden Teile oder Komponenten.** Wenn ein Banner-Anwendungstechniker zu dem Schluss kommt, dass dieses Gerät, ein Teil oder eine Komponente davon defekt ist, erhalten Sie von dem Techniker Erläuterungen zu Banners RMA-Verfahren (Return Merchandise Authorization) für die Warenrückgabe.

WICHTIG: Wenn Sie der Techniker anweist, das Gerät zurückzusenden, verpacken Sie es bitte sorgfältig. Transportschäden bei der Rücksendung werden von der Garantie nicht abgedeckt.

Unterstützung bei Produktreparaturen erhalten Sie von Ihrem örtlichen Banner Engineering Corp Händler oder direkt von Banner unter Tel. (763) 544-3164. Die in Ihre Muttersprache übersetzte Literatur finden Sie auf der Banner-Website unter www.bannerengineering.com oder kontaktieren Sie Banner direkt unter Tel. (763) 544-3164.

Français

Pour plus d'informations sur le dépannage du produit, contactez Banner Engineering. **Ne tentez pas de réparer ce dispositif Banner. Il ne contient aucun composant ou pièce qui puisse être remplacé sur place.** Si un ingénieur de Banner conclut que le dispositif ou l'une de ses pièces ou composants est défectueux, il vous informera de la procédure à suivre pour le retour des produits (RMA).

Important : Si vous devez retourner le dispositif, emballez-le avec soin. Les dégâts occasionnés pendant le transport de retour ne sont pas couverts par la garantie.

Pour vous aider lors de la réparation de produits, contactez votre distributeur Banner local ou appelez directement Banner au (763) 544-3164. La documentation traduite dans votre langue est disponible sur le site internet de Banner www.bannerengineering.com ou contactez directement Banner au (763) 544-3164.

Italiano

Per le procedure di individuazione e riparazione dei guasti di questo dispositivo, contattare Banner Engineering. **Non tentare di riparare questo dispositivo Banner, in quanto non contiene parti o componenti sostituibili dall'utente.** Se il dispositivo, una parte del dispositivo o un componente del dispositivo viene riscontrato difettoso da un tecnico Banner, il nostro personale vi comunicherà la procedura da seguire per ottenere l'autorizzazione al reso.

Importante: Se si ricevono istruzioni di rispedito il dispositivo al produttore, imballarlo con cura. I danni dovuti al trasporto non sono coperti dalla garanzia.

Per assistenza nelle riparazioni dei prodotti, contattare il distributore locale Banner Engineering Corp o contattare direttamente Banner al numero (763) 544-3164. È possibile accedere alla documentazione tradotta nella propria lingua madre sul sito Web Banner all'indirizzo www.bannerengineering.com o contattare direttamente Banner al numero (763) 544-3164.

Español

Comuníquese con Banner Engineering para solucionar de problemas de este dispositivo. **No intente ninguna reparación a este dispositivo de Banner, contiene piezas o componente que no se pueden cambiar en terreno.** Si algún ingeniero de aplicaciones de Banner determina que el dispositivo, alguna de las piezas o alguno de los componentes del dispositivo está defectuoso, le informará el procedimiento de autorización de devolución de mercancía (RMA, por sus siglas en inglés) de Banner.

Importante: Si se le solicita devolver el dispositivo, empáquelo con cuidado. Puede haber daños durante el envío de devolución que no estén cubiertos por la garantía.

Para reparaciones de productos, por favor contacte a su distribuidor local de Banner Engineering o llame a Banner directamente al 00 1 (763) 544-3164. Vea la literatura traducida en su idioma en el sitio web Banner en www.bannerengineering.com o comuníquese con Banner directamente al 00 1 (763) 544-3164.

中国人

如需对本装置进行故障排查, 请联系邦纳。 **请勿尝试自行维修该邦纳装置; 本装置不包含任何可在现场更换的部件或组件。** 若经邦纳应用工程师确认设备、设备部件或组件存在缺陷, 他们将告知您邦纳退货授权 (RMA) 流程。

重要注意事项: 如被要求退回装置, 请妥善包装后寄回。退货运输过程中发生的损坏不在保修范围内。

请联系当地的 Banner Engineering Corp 经销商或直接致电 Banner +1 (763) 544-3164, 以获得产品维修帮助。请访问邦纳网站 www.bannerengineering.com 或直接拨打 +1 (763) 544-3164 联系邦纳, 获取翻译成您母语的资料。

한국인

이 장치의 문제를 해결하려면 Banner Engineering에 문의하십시오. **이 Banner 장치에는 현장에서 교체할 수 있는 부품 또는 구성품이 없으므로 수리를 시도하지 마십시오.** Banner 애플리케이션 엔지니어가 장치, 장치 부품 또는 장치 구성품에 결함이 있는 것으로 판정하면, Banner의 RMA(제품 반송 승인) 절차에 대해 안내해 드립니다.

중요: 제품을 반송하도록 안내 받으셨다면 잘 포장해주시십시오. 반송 도중에 발생한 손상은 보증 서비스가 적용되지 않습니다.

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日本語

この装置のトラブルシューティングについては、バンナーエンジニアリングにお問い合わせください。このバンナー装置には、現場では交換できない部品またはコンポーネントが含まれているため、修理を試みてはいけません。バンナーのアプリケーションエンジニアが装置、装置の部品、または装置のコンポーネントに欠陥があると判断した場合、バンナーのRMA（返品承認）手続きについてお知らせします。

重要： 返品を指示された場合は、装置を丁寧に梱包してください。返品時に発生した破損は保証の対象外となります。

製品の修理については、最寄りのBanner Engineering Corp代理店にお問い合わせいただくか、米国+1 (763) 544-3164まで直接お電話でお問い合わせください。バンナーのウェブサイト (www.bannerengineering.com) でお客様の言語に翻訳された資料にアクセスするか、米国+1 (763) 544-3164まで直接お電話でお問い合わせください。

čeština

Pro řešení problémů se zařízením kontaktujte společnost Banner Engineering. **Neprovádějte žádné opravy zařízení Banner. Neobsahují žádné komponenty nebo části, které by byly vyměnitelné.** Pokud je zařízení, jeho část nebo díl označen technikem společnosti Banner jako poškozený, bude Vám doporučeno vyplnit reklamační RMA protokol.

Důležité: Pokud byl vydán požadavek na vrácení zařízení, pečlivě ho zabalte. Poškození vzniklé při dopravě není považováno za záruční opravu.

Pokud produkt potřebuje opravu, vyžádejte si pomoc od místního distributora společnosti Banner Engineering Corp nebo přímo na telefonním čísle (763) 544-3164. Dokumentaci přeloženou do vašeho jazyka si vyhledejte na webových stránkách společnosti Banner na adrese www.bannerengineering.com nebo se obraťte přímo na společnost Banner na telefonním čísle (763) 544-3164.

Polski

W celu rozwiązania problemów z urządzeniem należy skontaktować się z działem technicznym firmy Banner Engineering. **Pod żadnym pozorem nie próbuj naprawiać tego urządzenia firmy Banner; nie zawiera ono części ani elementów, które można wymieniać samodzielnie.** Jeśli urządzenie, jego część lub element zostaną uznane za wadliwe przez inżyniera technicznego Banner, poinformuje on użytkownika o firmowej procedurze zwrotu towaru (RMA) firmy Banner.

Ważne: Jeśli urządzenie ma zostać zwrócone, należy je starannie zapakować. Uszkodzenia powstałe podczas odsyłki nie są objęte gwarancją.

Aby uzyskać pomoc w zakresie naprawy produktu, należy skontaktować się z lokalnym dystrybutorem Banner Engineering Corp lub zadzwonić bezpośrednio do firmy Banner pod numer (763) 544-3164. Dostęp do literatury przetłumaczonej na swój język ojczysty można uzyskać na stronie internetowej firmy Banner pod adresem www.bannerengineering.com lub kontaktując się bezpośrednio z firmą Banner pod numerem (763) 544-3164.

Português

Entre em contato com a Engenharia da Banner para a solução de problemas deste dispositivo. **Não tente fazer nenhum reparo neste dispositivo Banner; ele não contém peças ou componentes substituíveis em campo.** Se um técnico de aplicações da Banner determinar que o dispositivo, peça ou componente do dispositivo está com defeito, ele o informará sobre o procedimento de RMA (Autorização de Devolução de Mercadoria) da Banner.

Importante: Se for instruído a devolver o dispositivo, embale-o com cuidado. Os danos ocorridos no transporte de devolução não são cobertos pela garantia.

Obtenha assistência para reparos do produto entrando em contato com o distribuidor local da Banner Engineering Corp ou ligando diretamente para a Banner no telefone (763) 544-3164. Acesse a literatura traduzida para seu idioma nativo no site da Banner em www.bannerengineering.com ou entre em contato diretamente com a Banner pelo telefone (763) 544-3164.

Türkçe

Bu cihazda sorun giderme işlemleri için Banner Engineering ile iletişime geçin. **Bu Banner cihazını onarmaya çalışmayın; cihaz sahada değiştirilebilir parça veya bileşen içermez.** Bir Banner Uygulama Mühendisi tarafından cihazın, cihazın bir parçasının veya bir cihaz bileşeninin kusurlu olduğu tespit edilirse, Banner RMA (İade Mal Yetkilendirme) prosedürü hakkında bilgilendirilirsiniz.

ÖNEMLİ: İade etmeniz istenirse, cihazı dikkatli bir şekilde paketleyin. İade nakliyesinde meydana gelecek hasarlar garanti kapsamında değildir.

Yerel Banner Engineering Corp distribütörünüzle iletişime geçerek veya doğrudan (763) 544-3164 numaralı telefondan Banner'ı arayarak ürün onarımlarıyla ilgili yardım alın. Ana dilinize çevrilmiş dokümanlara www.bannerengineering.com adresindeki Banner web sitesinden erişilebilir veya (763) 544-3164 numaralı telefondan doğrudan Banner ile iletişime geçebilirsiniz.

Contact Us

Banner Engineering Corp. | 9714 Tenth Avenue North | Plymouth, MN 55441, USA | Phone: + 1 888 373 6767

For worldwide locations and local representatives, visit www.bannerengineering.com.

Banner Engineering Corp Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

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