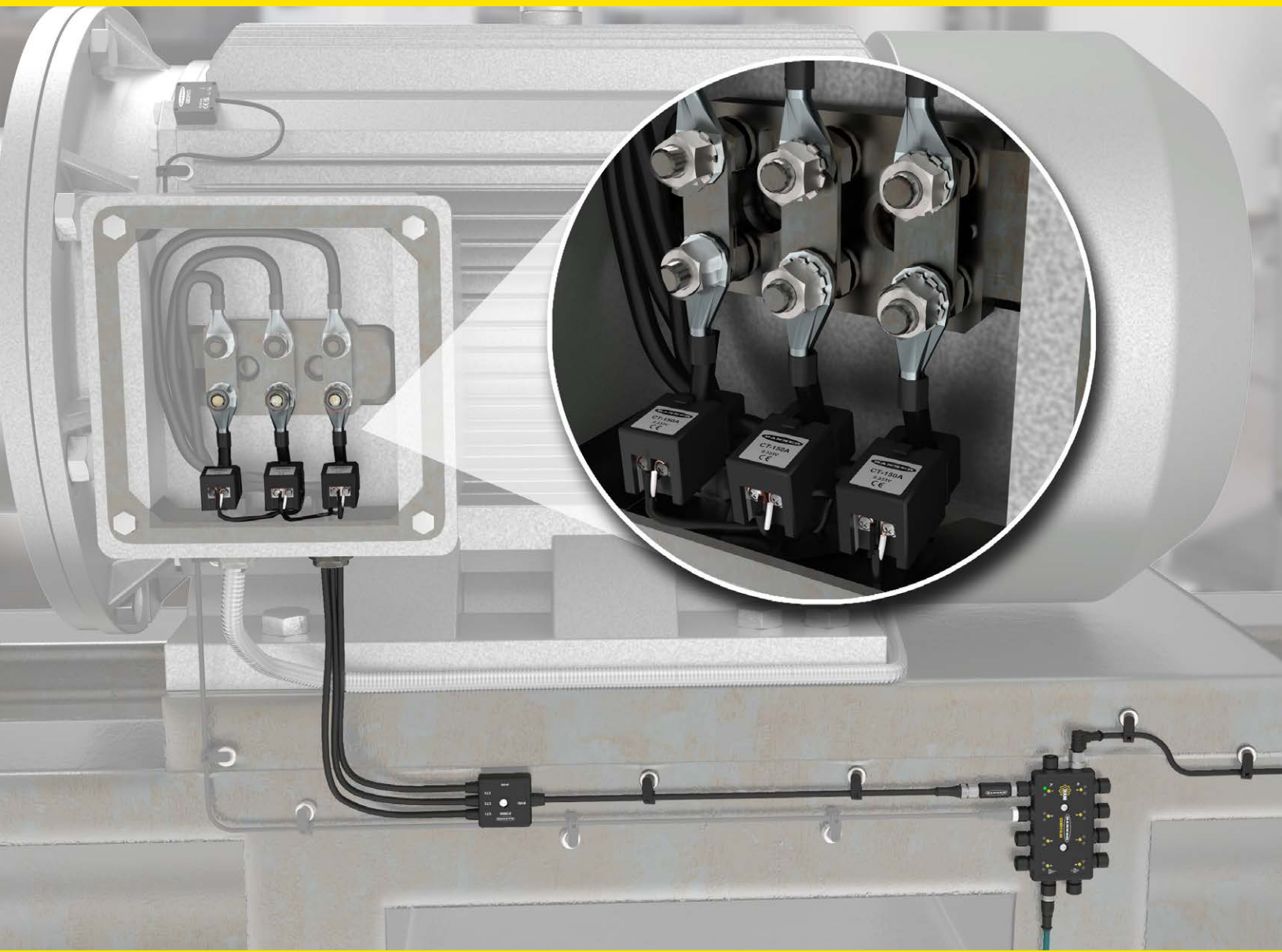


Current Monitoring Sensors



Turn Current into an Indicator of Equipment Condition

- **Turn single-phase load current into data for trending and alarm logic** using an S15C-CT model with IO-Link® or Modbus® output and one included split-core current transformer matched to the selected 20 A, 150 A, or 600 A range
- **Compare current across all three phases to identify imbalance, overcurrent, and undercurrent** using an S15C-3CT model with IO-Link or Modbus output and three included split-core current transformers matched to the selected 20 A, 150 A, or 600 A range
- **Monitor current up to 6,000 A in power distribution systems and large industrial motors** using S15S-R Rogowski Coil Current Sensors with Modbus output and 500 A, 1,000 A, 3,000 A, or 6,000 A measurement ranges



Turn Line Current into Actionable Data

Electrical equipment draws more or less current as its operating load changes. Monitoring and trending current helps maintenance teams recognize when equipment begins working harder than expected, loses its load, or operates outside its normal range. Comparing current across the lines of a three-phase system can also reveal imbalance. S15C-CT, S15C-3CT, and S15S-R current monitoring solutions convert these measurements into RMS amp readings and threshold status that provide maintenance teams with early indication of where to investigate before abnormal conditions lead to trips, overheating, equipment damage, or downtime.

Single-Phase Current Sensors

The S15C-CT Current Transformer Converter turns current from single-phase loads into RMS amp readings and threshold status for display, trending, and alarm or stop logic in PLCs, HMIs, SCADA systems, and cloud platforms. Available for IO-Link or Modbus systems, each 20 A, 150 A, or 600 A model includes a matched split-core current transformer that installs around one conductor without disconnecting or rerouting existing power wiring.

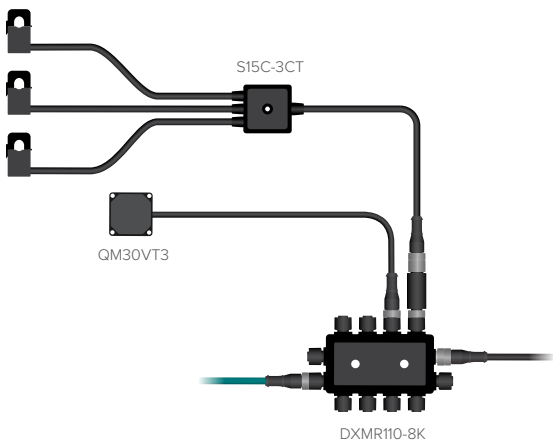


Description	Communication	Range	Model
Current transformer sensor	Modbus	0-20 Amps	S15C-CT20A-MQ
	IO-Link	0-20 Amps	S15C-CT20A-KQ
	Modbus	0-150 Amps	S15C-CT150A-MQ
	IO-Link	0-150 Amps	S15C-CT150A-KQ
	Modbus	0-600 Amps	S15C-CT600A-MQ
	IO-Link	0-600 Amps	S15C-CT600A-KQ

Supply Voltage	Modbus: 10 to 30 V DC IO-Link: 18 to 30 V DC	Environmental Rating	IP65, IP67, IP68
Construction	Coupling: Nickel-plated brass Connector: PVC translucent black	Certifications	CE, UL LISTED, UK CA
Operating Conditions	−40 to +70 °C		

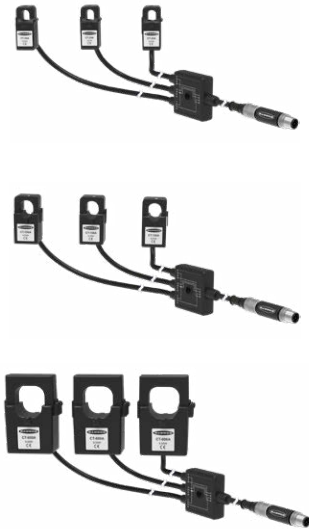
Monitor Electrical Load and Mechanical Condition Together

In an application where a three-phase motor drives a critical production process, an S15C-3CT paired with a QM30VT3 provides electrical-load and mechanical-condition data that reveals developing problems earlier and helps maintenance teams determine their cause. An S15C-3CT uses three included split-core current transformers installed around the three power conductors feeding the motor to make per-line RMS current readings and threshold status available over Modbus without disconnecting or rerouting existing power wiring. A QM30VT3 mounted on the motor provides three-axis RMS velocity, high-frequency RMS acceleration, temperature, and VIBE-IQ warning and alarm flags. Configured with unique Modbus addresses and common serial settings, both devices connect to separate ports on a DXMR110-8K, which combines the two data sets, allowing maintenance teams to correlate current changes with vibration, temperature, and VIBE-IQ alerts for a more complete view of electrical load and developing mechanical condition.



3-Phase Current Sensors

The S15C-3CT Current Transformer Converter turns current from all three lines feeding a three-phase load into amp readings and threshold status for display, trending, and alarm or stop logic. Available for IO-Link or Modbus systems, each 20 A, 150 A, or 600 A model includes three matched split-core current transformers that install around individual line conductors without disconnecting or rerouting power wiring. Compare RMS current across all three lines to identify imbalance, and use configurable low-current and high-current thresholds to flag current outside the expected range.

	Description	Communication	Range	Model
	Three current transformer sensors	Modbus	0-20 Amps	S15C-3CT20A-MQ-1
		IO-Link	0-20 Amps	S15C-3CT20A-KQ-1
		Modbus	0-150 Amps	S15C-3CT150A-MQ-1
		IO-Link	0-150 Amps	S15C-3CT150A-KQ-1
		Modbus	0-600 Amps	S15C-3CT600A-MQ-1
IO-Link		0-600 Amps	S15C-3CT600A-KQ-1	
Supply Voltage	Modbus: 10 to 30 V DC IO-Link: 18 to 30 V DC		Environmental Rating	IP65, IP67, IP68
Construction	Coupling: Nickel-plated brass Connector: PVC translucent black		Certifications	  
Operating Conditions	-40 to +70 °C			

High Current Sensors

Easily installed on conductors without having to remove wires, Rogowski coil current sensors provide critical data about the health and performance of AC-powered equipment. They can measure current as great as 6000 amps, making them useful in power distribution systems, large industrial motors, welding equipment, and other high-current environments where traditional current measurement techniques might be impractical or less accurate.



Description	Communication	Range	Model
Current transformer sensor	Modbus	500 Amps	S15S-R500-MQ
		1000 Amps	S15S-R1000-MQ
		3000 Amps	S15S-R3000-MQ
		6000 Amps	S15S-R6000-MQ

Supply Voltage	10 to 30 V DC	Environmental Rating	IP65, IP67, IP68
Construction	Coupling material: Nickel-plated brass Connector body: PVC translucent black Coil and cable: TPR, UL94-V0	Certifications	 
Operating Conditions	-30 to +70 °C		





BWA-UCT-900
RS-485 to USB programming cable
(required only for setup,
not daily operation)



CSB-M1250M1250-T
5-Pin M12 tee



CSB4-M1251M1250
5-Pin M12 splitter



R50-M12M4-0.5-3X0.5-3CT
R50 M12 4-pin to 3-cable exit



LMBS15MAG
Magnetic bracket for S15



BWA-BK-020
Two 80 lb magnetic mounts



R50-4M125-M125Q-P
4-Port 5-pin M12
molded junction block



R95-8M125-M125Q-P
8-Port 5-pin M12
molded junction block



DXMR110-8K
8-Port IO-Link master



4-Pin M12 Double-Ended
Straight connector models

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



4-Pin D-Code M12
Double-Ended
Straight connector models

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