

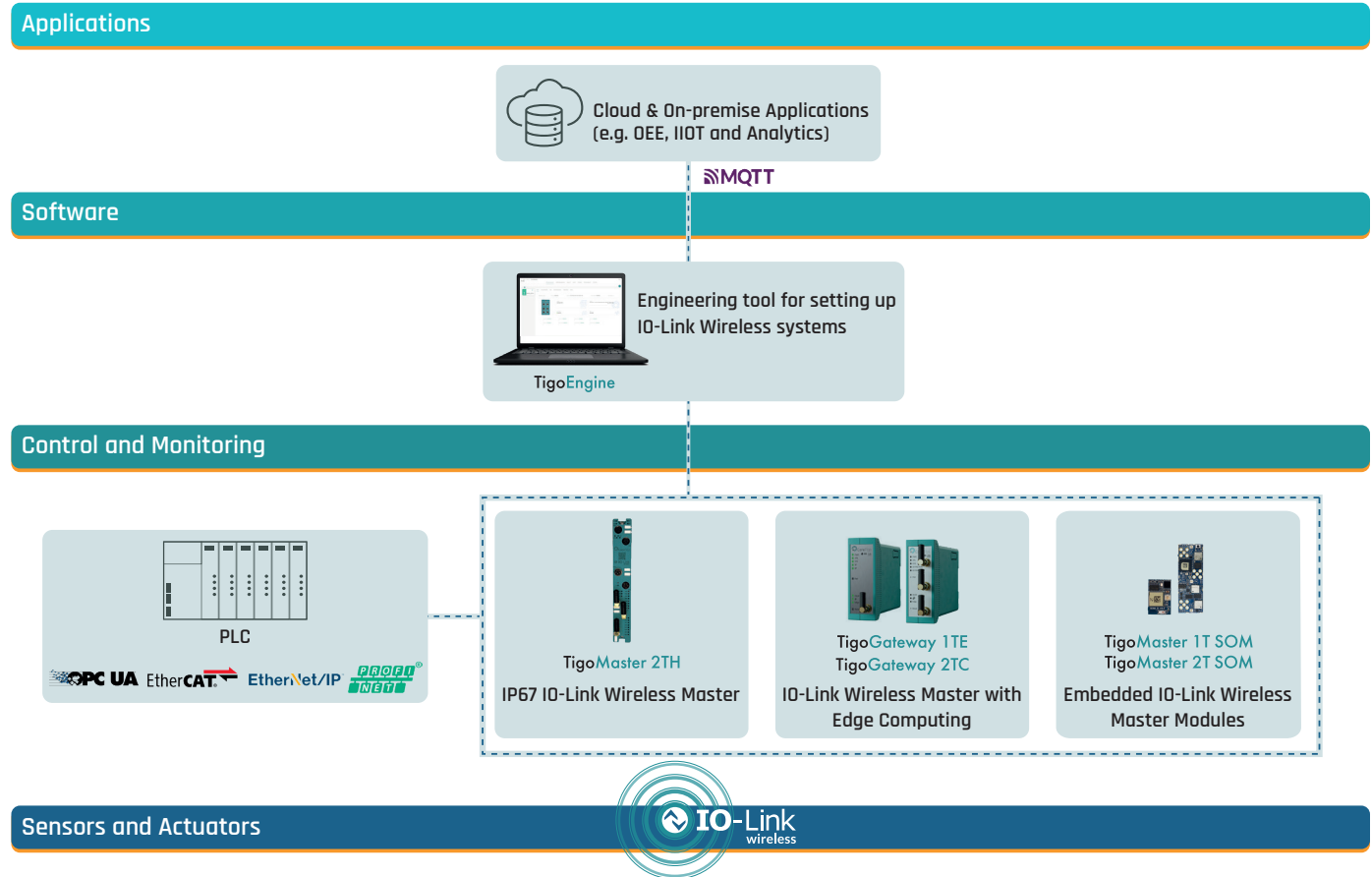
DATA SHEET

- Compact analog current to IO-Link device converter that connects to a current source (4 mA to 20 mA) and outputs the value to IO-Link
- Connects directly to a sensor or anywhere in-line for ease of use
- Simplify deployment and machine retrofit via wireless connection of analog devices, such as vibration sensors and load cells. IO-Link Wireless Bridge/Hub connects directly to the Analog Converter, enabling the measurements from the analog sensors to be communicated to the IO-Link Wireless Master over the air in the most reliable manner.

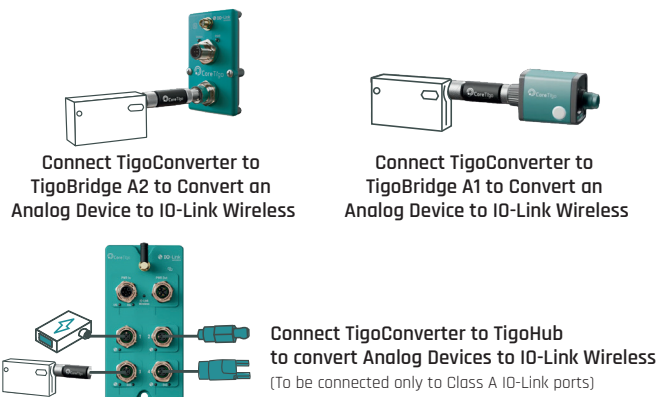


TIGOCONVERTER ACI1 - CT291-0067-01

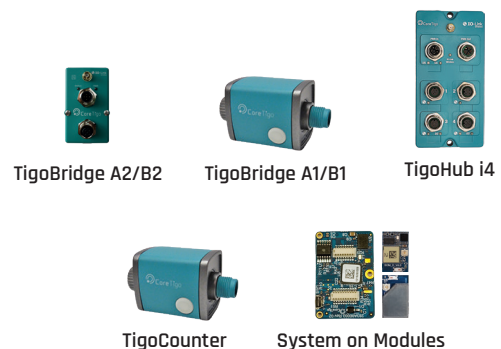
TigoConverter Network Topology



Device Setup Options



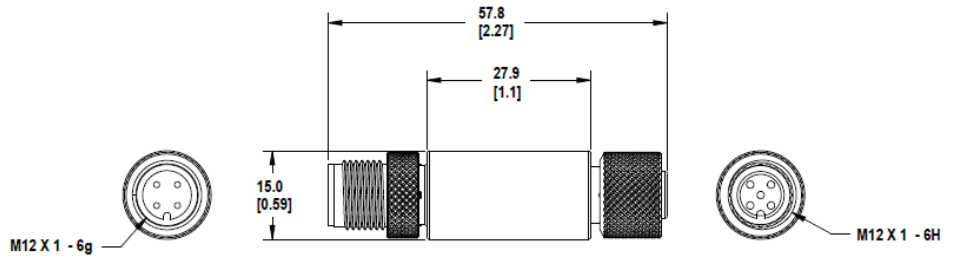
Additional Devices



Mechanical Data

Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise.



Status Indicators

Power LED Indicator (Green)

Solid Green - Power On
Off - Power Off

IO-Link Communication LED Indicator (Amber)

Flashing Amber (900 ms On, 100 ms Off) - IO-Link communications are active
Off - IO-Link communications are not present

Analog Communication LED Indicator (Amber)

Solid Amber - Analog current value is between setpoint SP1 and setpoint SP2
Off - Analog current value is less than setpoint SP1 or analog value is greater than setpoint SP2
Default Values 1:

- SP1 - 0.004 A
- SP2 - 0.02 A

Specifications

Supply Voltage

18 VDC to 30 VDC at 50 mA maximum

Power Pass-Through Current

1 A maximum

Analog Input Impedance

Approximately 450 ohms

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Leakage Current Immunity

400 μ A

Resolution

14-bits

Accuracy

0.5%

Indicators

Green - Power
Amber - IO-Link communications
Amber - Analog value present

Connections

Integral male/female 4-pin M12/Euro-style quick disconnect

Construction

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

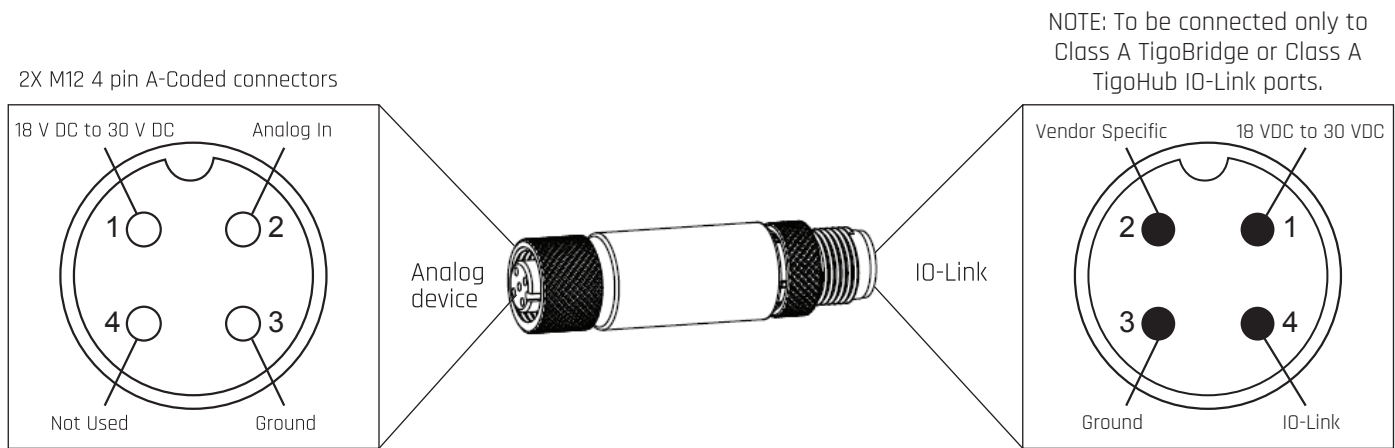
Vibration and Mechanical Shock

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)

Certifications and Approvals

CE	Compliant
UL	Compliant
IO-Link	Compliant
Environmental Rating	IP65, IP67, IP68, NEMA/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)

Wiring Diagram



Pin	Wire Color
1	Brown
2	White
3	Blue
4	Black

Important: A shielded cable is required on the female (sensor) side, with the shield tied to the blue wire.

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.

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



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