Sineax SI 815, TI 807 Signal Isolators

SI 815 One or Two Channel Passive Isolators w. Power Supply Transfer

Input: ***0-20 mA or 4-20 mA***
Output: ***0-20 mA or 4-20 mA***

- ***Output Loop Powered (12-30 VDC)***
- ***Transfers Power From Output Loop to Input Loop***
- ***Optional FSK Compatible with HART Communications***

ISO 9001 : 2000



Specifications

Input	4-20 mA, 50 mA limit
Voltage	12-30 VDC
Voltage Drop	Less than 2.7 V at 12-22 V Less than 3.5 V at 12-22 V w. communications
Output	4-20 mA, optional FSK
Accuracy	±0.2% max at 20 mA
Time Constant	5 milliseconds, approx.
Dielectric Test	2300 VAC
Ambient	Operation –25 to 55°C, storage –40 to 70°C
Power Supply	Passive, powered by loop

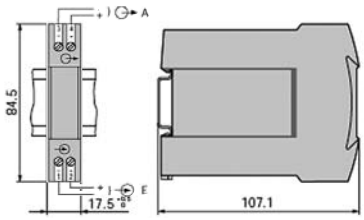
Description and Features

The **SI 815** series signal isolators electrically isolate the 4-20 mA input circuit of a 2-wire transmitter. They are powered on the output loop and also conduct the power needed to the input to operate a 2-wire input transmitter. The isolator itself does not require an power supply. Optional FSK communication is used with intelligent HART capable 2-wire transmitters.

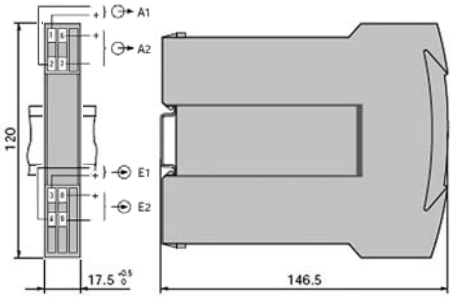
Models

Model	Channels	FSK	Input/Output
815-51100	1	no	4-20 mA
815-51110	1	yes	4-20 mA
815-11200	2	no	4-20 mA
815-11220	2	yes	4-20 mA

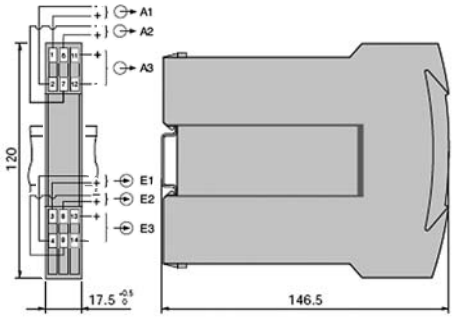
See www.mod-tronic.com for technical data sheet or consult factory.



SI 815, TI 807 1-Channel



SI 815, TI 807 2 Channel



TI 807 3-Channel

TI 807 1, 2, or 3 Channel Passive Isolators, 4 kV Isolation

Input: ***0-20 mA to 4-20 mA***
Output: ***0-20 mA to 4-20 mA, or 0-10 V***

- ***Passive Isolator, No Power Supply Required***
- ***Compact Size***
- ***Isolate I/O and Eliminate Ground Loops***

ISO 9001 : 2000



Specifications

Input	0-20 mA to 4-20 mA, 50 mA limit
Voltage Limiter	27 V ±5% (with zener diode)
Output	0-20 mA, 4-20 mA, 0-10 V to 2-10 V
Voltage Drop	<2.6 V at 1000 Ω (current) or 500 Ω (voltage)
Burden	Current: 1000 Ω, max., voltage: 500 Ω, max.
Accuracy	±0.1% at 20 mA, ±0.2% at 10 V, typical
Time Constant	3 milliseconds, approx.
Dielectric Test	4000 VAC
Ambient	Operation –20 to 55°C, storage –40 to 70°C
Power Supply	Passive, powered by loop

See diagrams above for dimensions and wiring

The **TI 807** signal isolators electrically isolate an analog 0-20 mA DC input signal and convert it to a current or voltage signal (0-20 mA or 0-10 V). It operates passively and does not require a separate power supply, but derives the little auxiliary energy it needs from the DC input signal.

API maintains a constant effort to upgrade and improve its products. Specifications are subject to change without notice. Consult factory for your specific requirements.

Model	Channels	Input	Output
807-51100	1	0-20 mA to 4-20 mA	0-20 mA to 4-20 mA
807-11200	2	0-20 mA to 4-20 mA	0-20 mA to 4-20 mA
807-11300	3	0-20 mA to 4-20 mA	0-20 mA to 4-20 mA
807-_____	Specify	0-20 mA to 4-20 mA	0-10 V or Specify

See www.apicb.com for technical data sheet or consult factory.

DC Input