Sineax B 812 and B 840 Loop Power Supplies

B 812 Loop Power Supplies with Signal Transfer Output

- *17 VDC Output*
- *HART Communications Standard*
- *Diagnostic LEDs for Operational Status & Loop Fault*
- *Removable Plugs for Easy Hookup*



HART® FIELD COMMUNICATIONS PROTOCOL

CE

ISO 9001 : 2000

B 812



Removable Plugs for Easy Hookup

Specifications

Input
4-20 mA

Output
4-20 mA, 17 VDC no load

Indicators
Green power LED
Red LED for open or short circuit monitoring

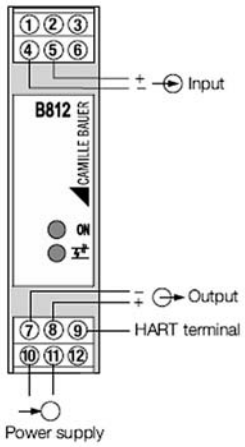
Source Resistance
350 Ω

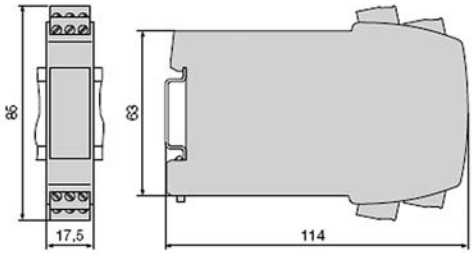
Burden
Permitted load: 750 Ω, 550 Ω with HART

Temperature
Operation: –20 to 50°C
Storage: –20 to 70°C

Dielectric Test
3600 VAC

Power
20-70 VAC/VDC or 60-265 VAC/VDC
45-400 Hz for AC





Description and Features

The **B 812** power supply unit provides DC power for 2-wire transmitters and transfers the measured variable unchanged to the electrically isolated output. Standard FSK communication is used with intelligent HART capable 2-wire transmitters.

Provision is made for monitoring the measurement/supply to detect short and open-circuits . Either of these faults is signalled by the red LED.

Models

Model	Output	Power
812-155110	17 V @ 0 mA 4-20 mA, HART	20-70 VAC/VDC
812-155128	17 V @ 0 mA 4-20 mA, HART	60-265 VAC/VDC

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

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

B 840 Four Channel Loop Power Supplies

- *4 Isolated Power Supplies in One Package*
- *24 VDC Output Limited to 25 mA*
- *LED Monitor for Each Channel*

CE

ISO 9001 : 2000



B 840

Specifications

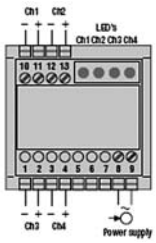
Input
Four independent 4-20 mA loops

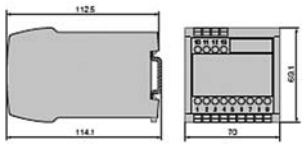
Supply Voltage
24 V at 20 mA

Burden
Permitted load: 750 Ω

Temperature
Operation: –10 to 55°C
Storage: –40 to 70°C

Power Supply
24 VAC, 115 VAC, or 230 VAC





The **B 840** provides DC power for 2-wire 4-20 mA transmitters. There are four power supply outputs available. Each power supply output is monitored by a green LED. The corresponding green LED is continuously lit when the measuring/supply circuit is closed.

Model	Output	Power Supply
840-147-464	4 Channels, 24 V@ 20 mA	24 VAC
840-147-472	4 Channels, 24 V@ 20 mA	115 VAC
840-147-480	4 Channels, 24 V@ 20 mA	230 VAC

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

DC Supplies

Transmitter Power Supply Unit SINEAX B812

The SINEAX B812 unit supplies all commercially available 2-wire field transmitters. It is one of the smallest products on the market (l: 114 mm, w: 17.5 mm, h: 69.2 mm). Nevertheless, we did not make any compromise in relation to safety. The unit embodies galvanic isolation between all circuits and complies with the whole range of EN 61 010 or IEC 1010 requirements. The intrinsically safe design connects to all field instruments in explosive gas or dust atmospheres (Zones 0, 1, 2 or 20, 21, 22).

Advantages

- The narrow design facilitates high packing density
- Wide area power packs permit worldwide application
- HART communication for intelligent transmitters without any surcharge
- Monitoring of input circuit and indication of errors

Function

The B812 unit supplies 2-wire transmitters and provides the 4 – 20 mA signal galvanically isolated at the output. The separation is HART penetrable, i.e. you can parameterize or read out intelligent transmitters via HART or customized protocols. Two power supply versions with wide area power packs ensure the connection to all common power supplies.

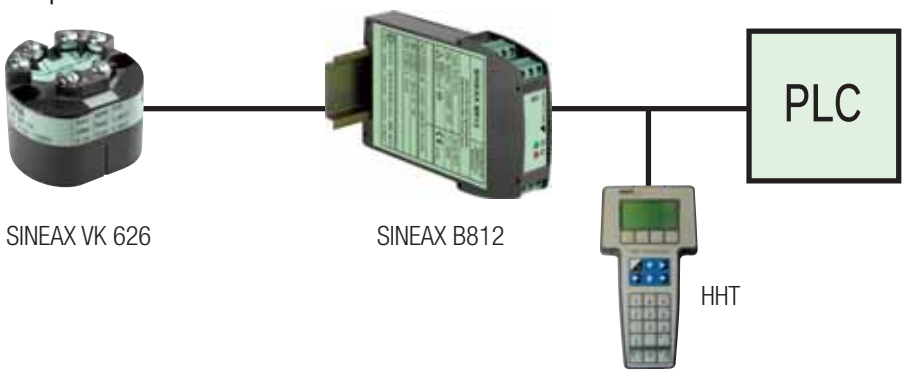
Applications

Temperature measurement



SINEAX VK 616 SINEAX B812

Temperature measurement HART



SINEAX VK 626 SINEAX B812 HHT

Angle of rotation measurement



KINAX 2W2, 3W2 SINEAX B812

Position feedback measurement



KINAX SR 719 SINEAX B812

Technical data

Mechanics

Housing width:	17.5 mm
Flammability class:	UL 94 V0
Ambient temperature:	–20…+55 °C

Input

Supply voltage at 20 mA:	18 V
No-load voltage:	26 V
Short-circuit current:	25 mA
Signal:	4…20 mA

Short-circuit/breakage monitoring with LED

Output

Signal:	4…20 mA
Load:	750 Ω

Power supply

Low:	20…70 V AC/DC
High:	50…265 V AC/DC
High Ex:	50…125 VDC / 265 VAC

Explosion protection

Type of protection: [EEx ia] IIC Ex II (1) GD
Uo: 28 V, Io: 93 mA, Po: 651 mW

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