

SINEAX B812

Transmitter Power Supply Unit

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 world-wide application
- HART communication for intelligent transmitters without any surcharge
- Monitoring of input circuit and indication of errors

Function

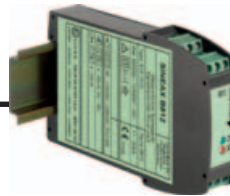
The B812 unit supplies 2-wire transmitters and provides the 4 – 20 mA signal galvanically isolated at the output. The separation is HART penetrable, i.e. you can parameterize or read out intelligent transmitters via HART or customized protocols. Two power supply versions with wide area power packs ensure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

Applications

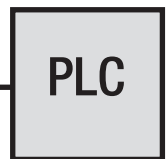
Temperature measurement



SINEAX VK 616



SINEAX B812



Temperature measurement HART



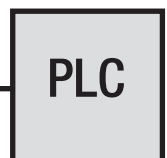
SINEAX VK 626



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HHT



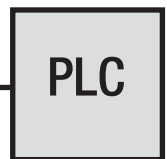
Angle of rotation measurement



KINAX 2W2, 3W2



SINEAX B812



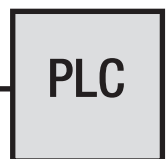
Position feedback measurement



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

 **CAMILLE BAUER**

Rely on us.

Camille Bauer AG
Aargauerstrasse 7
CH-5610 Wohlen / Switzerland

Phone +41 56 618 21 11
Fax +41 56 618 35 35

info@camillebauer.com
www.camillebauer.com