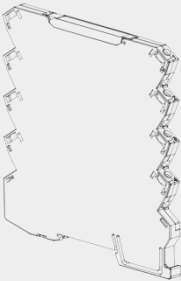


BM800-RPSI/I-11

V1.0

Signal Isolator Installation

Supports 2-wire, 3-wire and 4-wire transmitters



Product Description

The BM800-RPSI/I-11 is a 6.2 mm thick signal isolator mountable on DIN 35 mm rails. It adopts a 1-in-1-out channel configuration with galvanic isolation among the input, output and power supply terminals. It isolates and transmits 0~20 mA or 4~20 mA current signals from the input to the output. The input side is compatible with 2-wire, 3-wire and 4-wire transmitters, and the device operates on a 24 V DC power supply.

Electrical Specifications

Model	BM800-RPSI/I-11
Input Specifications	
Input channel	1
Input signal	DC 0/4~20mA(2-wire, 3-wire and 4-wire transmitters)
Maximum Input Current	Approx. DC 35 mA
Maximum Input Impedance	Approx. 16 Ω plus 0.7 V diode voltage drop
Distribution Voltage	> 20V(@20mA Input)
Output Specifications	
Output channel	1
Available outputs	DC 0/4-20mA(Active Signals)
Max output current	DC 40mA
Open-circuit Voltage	< 5V
Output ripple	≤50mVpp(@250Ω)
Load capacity	≤550Ω

Wiring Specifications

Connection Type	Screw terminal connection
Solid single-core wire size	0.5~2.5mm ²
Stranded flexible wire size	0.5~2.5mm ²
AWG wire gauge	20~13
Wire stripping length	8mm
Ambient Specifications	
Operating ambient temperature	-20~60°C
Storage ambient temperature	-40~80°C
Max operating altitude	≤2000m
Relative ambient humidity	≤95%RH,non-condensing

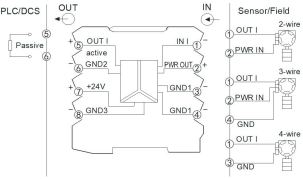
Disclaimer

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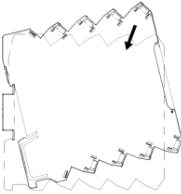
Power Supply Parameters	
Nominal supply	24V DC
Operating supply range	20~35V DC
Power consumption	≤1.8 W (2-wire transmitter input, Iout=20 mA, 24 V DC, 550 Ω load)
General Performance	
Conversion Accuracy	≤0. 1% (F. S.)
Temperature drift	50ppm/°C
Response time(10-90%)	≤5ms
Overvoltage category	II
Pollution degree	2
Ingress protection	IP20
Dielectric strength	1.5kV AC, 50Hz, 60s (between input, output and power circuits)
Insulation resistance	100MΩ
Overall dimension	W6.2mm × H97mm × D100mm
Weight	approx. 70g
Mounting	DIN35 standard rail

The manufacturer reserves the right to revise product specifications without prior notice. Please consult local authorized distributors for the latest specifications before placing orders.

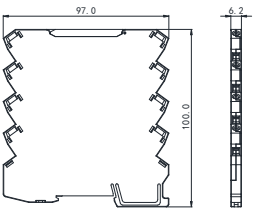
Product Application



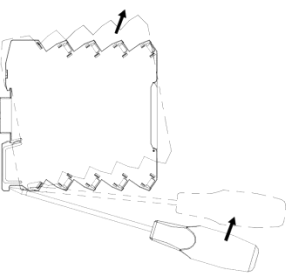
Installation



Product Dimensions (Unit: mm)



Removal



产品接线



Notes

The product shall be installed in an area where the ambient air contains no corrosive substances that damage chromium, nickel and silver platings.

Contact Information

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深圳正浩 本说明书 V1.0 制作要求：

- 1、展开尺寸 $280 \times 160\text{mm}$ （风琴四折再上下折叠，成型尺寸 $56 \times 80\text{mm}$ ）；
- 2、双面 4C 印刷，100g 太阳双胶纸。

本页制作要求无需进行印刷

