

Resistance Repeater

NPRR-C1D

Single input, single output

NPRR-C2D

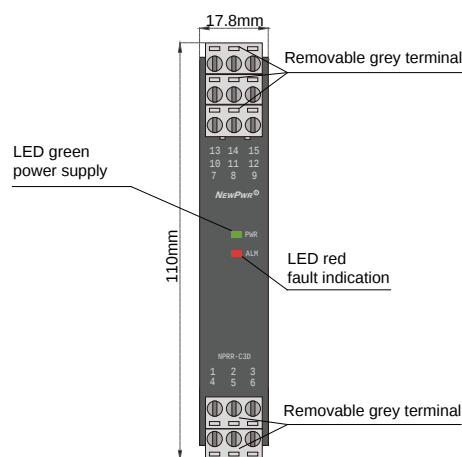
Single input, dual output

NPRR-C3D

Dual input, dual output

Input: Resistance; Output: 1:1 Resistance

This resistance repeater converts the resistance signals to 1:1 resistance signals. The input, output, and power supply are galvanically isolated from each other.



Parameters

Power supply:	18 V DC ~ 60 V DC (Reverse power protection)
Power dissipation:	0.4 W
Input signal:	18 Ω ~ 400 Ω
Line resistance:	$\leq 20 \Omega$ per line (RTD)
Output signal:	1:1 resistance
Exciting current:	0.1 mA ~ 10 mA
Conversion accuracy:	excitation current Accuracy 0.5 mA ~ 10 mA $\pm 0.1\%$ F.S. or $< 0.2 \Omega$ (select max)
Temperature drift:	30 ppm/ $^{\circ}\text{C}$
Response time:	≤ 500 ms
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	≥ 1500 V AC (Input/Output/Power supply)
Insulation resistance:	≥ 100 M Ω (Input/Output/Power supply)
Operation temperature:	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Storage temperature:	$-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$
Dimension:	17.8 mm (W) $\times$ 110 mm (H) $\times$ 117 mm (D)
Output states:	Whatever input fault status (except breakage, breakage output about 16 Ω), the output follows the input within measuring range. the maximum output value would not exceed 430 Ω

Wiring diagram

