

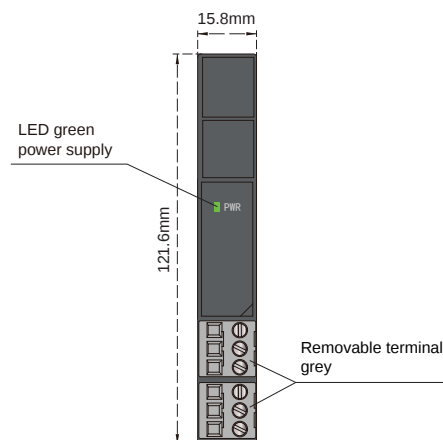
NPFR-H1D

Single input, single output

Input: Frequency

Output: 1:1

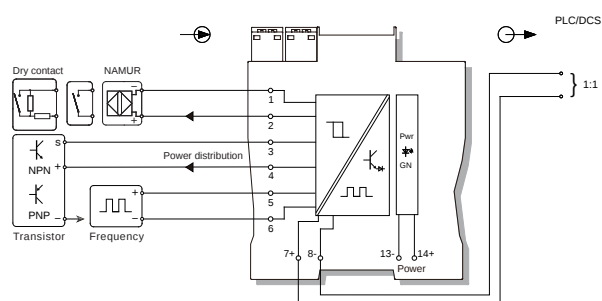
This pulse isolator converts the frequency signals to 1:1 frequency signals. The input, output, and power supply are galvanically isolated from each other.



Technical data

Power supply:	18 V DC~32 V DC (Reverse power protection)
Power dissipation:	0.8 W (24V DC, single output)
Input signal:	Frequency Max. Input voltage: 30V_{pp} Min. Input amplitude: 2V Frequency range: 0.1Hz~100kHz PNP/NPN Distribution voltage: 24V Current: ≤ 20mA Frequency range: 0.1Hz~10kHz NAMUR switch Distribution voltage: approx.8.2V Short-circuit current: approx.8mA Frequency range: 0.1Hz~10kHz
Output signal:	Open collector High level: V_{cc} (≤ 30V) Low level: ≤ 2V drive current: ≤ 10mA Emitter follower High level: V_{cc}-2V Low level: ≤ 0.5V drive current: ≤ 10mA Logic level High level: 18V ≤ V_H ≤ 24V Low level: V_L ≤ 2V Load resistance: ≥ 1kΩ
Accuracy:	± 0.1%F.S.
Temperature drift:	≤ 0.01%F.S./°C
Response time:	≤ 500ms
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	≥ 1500 V AC (Input/Output) ≥ 500 V AC (Power supply/Output)
Insulation resistance:	≥ 100 MΩ (Input /Output/Power supply)
Operation temperature:	-20°C ~ +60°C
Storage temperature:	-40°C ~ +80°C
Dimension:	15.8 mm (W) × 121.6 mm (H) × 104.8 mm (D)

Wiring diagram



24V DC, single input, single 1:1 output