C Series
Single Channel
Pulse Isolator

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➔ Introductions

This pulse isolator converts the frequency signals to : frequency signals. DIN rail power supply function can be selected in ordering.

The input, output, and power supply are galvanically isolated from each other. The main advantages of the isolated safety barrier are fast response, low dissipation and temperature stability.

➔ Parameters

Power supply:

Connection type: Terminals (9+, 0-) or DIN rail connector

Rated voltage: 8 V DC ~ 60 V DC (Recommended voltage: 24 V DC)

Input (1, 2):

Input signal: frequency

Switching point:

Low level: 0 ~ 2 V; High level: 4 ~ 30 V (The other point need to be ordered)

Frequency range: ≤ 00 kHz

Pulse width: ≥ 5 μs

Input resistance: ≥ 0 kΩ

Resolution:

Input frequency < kHz: 0. Hz

Input frequency ≥ kHz: Hz

Output (5, 6; 7, 8): open collector/emitter follower/logic level

Open collector:

high level: V_{cc} (≤ 30 V)

low level: ≤ 2 V

drive current: ≤ 0 mA

Emitter follower:

high level: V_{cc} – 2 V

low level: ≤ 0.5 V

drive current: ≤ 0 mA

Logic level:

24 V system: PLC, DCS:

high level: 8 V ≤ V_H ≤ 24 V

low level: V_L ≤ 2 V

2 V system: PLC, DCS:

high level: 9 V ≤ V_H ≤ 2 V

low level: V_L ≤ 2 V

Load resistance:

≥ 2 kΩ (24 V system: PLC, DCS)

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Note: Configurable logic level default, open collector or emitterr follower can be selected in ordering.

Distribution (Default: 24 V DC):

24 V DC: Distribution voltage ≥ 22V at 20mA

2 V DC: Distribution voltage ≥ V at 20mA

Transmission characteristics:

Accuracy: ± 0. % F.S. (25 ℃ ± 2 ℃)

Response time: ≤ 0.5 μs

Electromagnetic compatibility: Accordance to IEC 6 326-3-

Dielectric strength (1 mA leakage current, 1 minute test time):

≥ 500 V AC (Input /Output/Power supply)

Insulation resistance: ≥ 00 MΩ (Input /Output/Power supply)

Ambient conditions:

Operation temperature: −20 ℃ ~ +60 ℃

Relative humidity: 0% RH ~ 90% RH (40 ℃)

Atmosphere pressure: 80 kPa ~ 06 kPa

Storage temperature: −40 ℃ ~ +80 ℃

Power dissipation:

0.9 W (24 V DC, single output)

.8 W (24 V DC, double output)

➔ Support model type

B. Snap metal lock onto mounting rail, then rotate the apparatus, as figure B, press down the apparatus onto mounting rail, make sure that the BUS connector pins of apparatus and BUS socket are in close contact.

BUS	Electrical Characteristics
Current	Max. 8 A
Voltage (UL/IEC)	.6 kV
Operation temperature	−40 ℃ ~ + 05 ℃

C. Pry the metal lock off the rail with screwdriver as arrow shown, pull downward the springs, and rotate the apparatus.

D. Remove the apparatus as arrow shows.

❍ As far as possible to