2 WIRE CONVERTER

SL2W

No power supply required (Loop powered output)

GENERAL SPECIFICATIONS

- Housing Material : Plastic ABS(Resin) Gray
- Isolation : Input to Output
- Adjustable : Output Offset
- Burnout Protection : Upscale standard (Default Set)
- Output protected by transient voltage suppressor.
- Max. measuring Range:
  - DC Voltage 0.000 ~ 10.000 V (Max. 11.0 V)
    DC Current 4.000 ~ 20.000 mA (Max. 22.0 mA)
  - RTD Sensor type DIN IEC 60751/ JIS C 1606
    (sensor current approx. 0.3 mA)
  - T/C Sensor type DIN EN 60584
    T/C type T, E, J, K, N, R, S, B
  - Resistance and Potentiometer 0 ~ 4000 Ω / 4 ~ 100kΩ
- Adjustment : Zero & Span(Separation) Free.
- Adjustment : Offest Adj range 0~1mA (F1+3Sec. => ±0.5 mA)

Analog output for measuring range

- Configurable : 4~20mA or 20~4 mA, 2 Wire design
- Lower Limit : 3.9 mA
- Higher Limit : 21 mA
- Load resistance(Ra) : Ra < (Supply Voltage(Vi) - 14V) / 0.02A

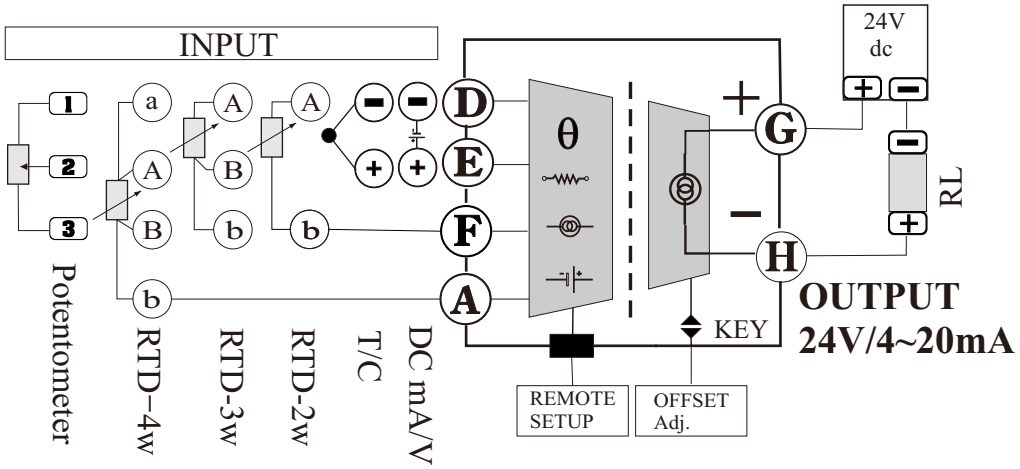
INSTALLATION

- Power Supply : DC 14~30V (24V
- Mounting : Rail Mounting IEC 60715
- Dimension : 22.5(W) X 75(H) X 107(D) (Unit : mm)
- Weight : about 100g

PERFORMANCE

- Accuracy : ±0.1% less (F.S) 23 ℃ IEC 60770
- Ambient and storage Temperature : -20 ~ +70 ℃
- Operating Humidity : 90% RH max. (Non-condensing) IEC 60068-2-30
- Vibration : 0 ~ 2000 Hz 5g IEC 60068-2-6
- Temperature Coefficient : 0.0045% /℃ (F.Test: -10~60 ℃ 0.009 ℃/℃)
- Measured value update : approx. 3 / Sec. Normal
- Isolation Voltage(Input versus Output) : AC1500 V / 60 sec. t) IEC 60664-1

SCHEMATIC CIRCUIT & CONNECTION DIAGRAM



Input configurable :type of sensor and measuring range

DC mV / V / mA

- DC Voltage 0.000 ~ 10.000 V (Max. 11.0 V)
- DC Current 4.000 ~ 20.000 mA (Max. 22.0 mA)

RTDs

- Pt100 DIN IEC 60751 max. measuring range -200.0 ~ 850.0 ℃ (sensor current approx. 0.3 mA)
  Pt 10,50,500,1000 etc.
- JPt100 JIS C 1606 max. measuring range -200.0 ~ 500.0 ℃ (sensor current approx. 0.3 mA)
- Ni 100 DIN 43760 max. measuring range -50.0 ~ 250.0 ℃ (sensor current approx. 0.3 mA)
- lead wirre connection configurable : 2 wire, 3 wire, 4 wire

Thermocouples (max. measuring range)

- type T (-270.0 ~ +400.0 ℃) DIN EN 60584
- type E (-270.0 ~ +1000.0 ℃) DIN EN 60584
- type J (-210.0 ~ +1200.0 ℃) DIN EN 60584
- type K (-270.0 ~ +1372.0 ℃) DIN EN 60584
- type N (-270.0 ~ +1300.0 ℃) DIN EN 60584
- type R (- 50.0 ~ +1768.0 ℃) DIN EN 60584
- type S (- 50.0 ~ +1768.0 ℃) DIN EN 60584
- type B (250.0 ~ +1820.0 ℃) DIN EN 60584

Resistor & Potentiometer (max. measuring range)

- Resistance and Potentiometer 0 ~ 4000 Ω / 4 ~ 100 kΩ

Power supply

- Power supply : (14 ~ 30 Vdc) Protection voltage 36V~

Output for measuring range

- Configurable : 4 ~ 20 mA or 20 ~ 4 mA (wire or HS setter design)
- Lower limit : 3.9 mA
- Higher limit : 21 mA
- Load Resistance(Ω) = ((supply voltage(V) - 14(V)) / 0.02 A)

MODEL & SUFFIX CODE

SL2W-□□□

Input Sensor

□1 : DC-1CH □2 : DC-2CH
□3 : RTD 2-lead
□4 : RTD 3-lead
□5 : RTD 4-lead
□6 : TC
□7 : Potentiometer 2-lead
□8 : Potentiometer 3-lead
□0 : Etc.

Input Type

□1 : DIN Pt10 □2 : DIN Pt50 □3 : DIN Pt100 □4 : DIN Pt1000
□5 : JIS Pt100
□6 : Ni100

□T: type T □E : type E □J : type J □K : type K
□N : type N □R : type R □S : type S □B : type B

□0 : NONE

Input Measuring range

□1 : 0~1.0 V □2: 1~5V □2: 0~10V □3: 0~20mA □4: 4~20mA

□A : 0~100℃ □B : 0~200℃ □C : 0~300℃ □D : 0~400℃ □E : 0~500℃
□F : 0~600℃ □G : 0~700℃ □H : 0~800℃ □I : 0~900℃ □J : 0~1000℃

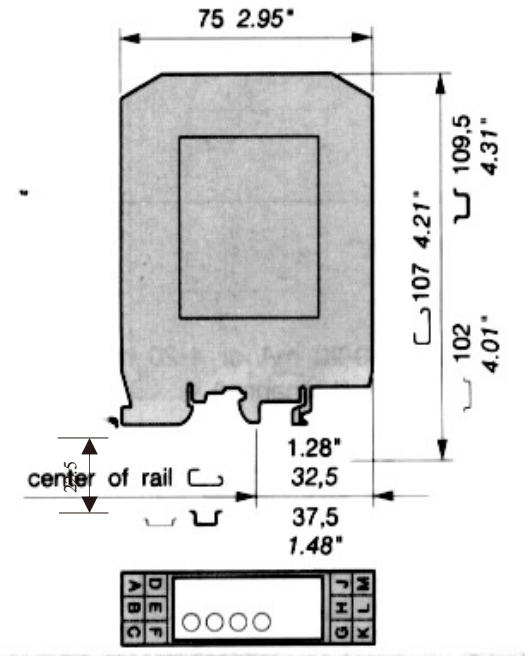
□1 : 0~100Ω □2 : 0~500Ω □3 : 0~ 1kΩ □4 : 0~4kΩ

□0 : Other range.

Analog output for measuring range (Default Setup)

□ 4~20 mA with Power supply 24Vdc

DIMENSION



Spacing 22.5 mm .886"