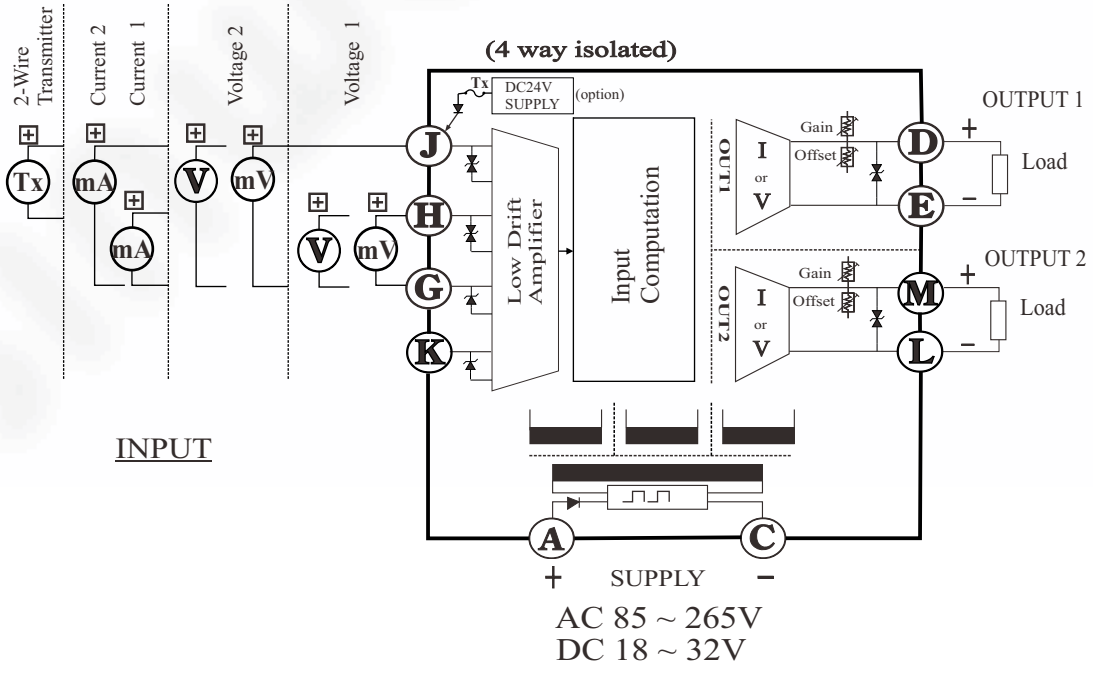
☐ Function & Features

- One or Two analog inputs
- Converting a DC input into two isolated process signals
- Multiple functions
- Received two DC inputs and provides outputs proportional to the calculation functions of the inputs
- FUNCTIONS (addition, subtraction, multiplication, division, etc.)
- Four-way isolation (input/output1/output2/power)
- Protection Input and output TVS diode
- Analog One or Two outputs (independent output module)
- Universal power input
- Power fuse (240V/0.12A)

☐ GENERAL SPECIFICATIONS

- Housing Material : polyamide UL94.V0 Grey
- Rated wire size : 0.3~2.5mm² / 22~14 AWG
- Isolation : Input to Output to Power
- Easy Calibration of the Gain (Max. ±15% of F.S) and Offset(Max. ±15% of F.S)
- Power Supply : DC 18~32V or AC 85~265V
- Operating Temperature : -5~55℃ (storage : -20~70℃)
- Operating Humidity : 90% RH max. (Non-condencing)
- Mounting : Rail Mounting
- Dimension : 22.5(W) X 75(H) X 107(D) (Unit : mm)
- Weight : about 140g

SCHEMATIC CIRCUIT & CONNECTION DIAGRAM



☐Input & Output

■ **INPUT (A & B) :**

● **CURRENT**
- Programmable range : -20 mA ~ +20 mA DC
- Measurement range : ±21 mA Max.
- Input resistance : 50Ω(0.5W)

● **LOOP POWERED CURRENT**
- Supply Voltage : 18 ~25 V DC(Terminal) / 4~20 mA

● **VOLTAGE** :
- Programmable Range : -10V ~ +10V DC
- Measurement range : ±11V DC
- Input resistance Normal : 1 MΩ

■ **ANALOG OUTPUT** :
- DC Current : 0(4)~20 mA DC max. (Load resistance : 600Ω max.)
- DC Voltage : -10V min. ~ +10V DC max. (Load Resistance : 10 KΩ or more)
- 2-Wire Transmitter(4~20 mA DC), supply out voltage (9 V ~ 35 V DC)

■ **FUNCTIONS**
- Analog Calculations
  [000] Normal input (A)
  [001] Square Root (A)
  [002] Root Extraction (A)
  [007] ADDER(A+B) : Addition of 2 analog inputs
  [008] SUBTRACTOR(A-B) : Subtraction of 2 analog inputs
  [009] MULTIPLIER(A*B) : Multiplication of 2 analog inputs
  [010] DIVIDER(A/B) : Division of 2 analog inputs
  [101] Normal input (B)
  [102] Square Root (B)
  [103] Root Extraction (B)
  [108] SUBTRACTOR(B-A) : Subtraction of 2 analog inputs
  [109] DIVIDER(B/A) : Division of 2 analog inputs

- Two Converters
  [201] There are two converters in the product (Only DC input (A and B))
  [Input-A to Output-1, and Input-B to Output-2]

MODEL & SUFFIX CODE

SL-NDSC- □ □ □ □ □ □

Input Type Selection (Available for Input A & Input B)

0 : None
A : ± 20 mA DC (Impedance : 50 Ω / 0.5 W) [DC 0~1mA, 0~20mA, 4~20mA]
B : 2-Wire Transmitter(4~20mA DC, Impedance : 50 Ω / 0.5 W) [supply out voltage (18 V ~ 25 V DC)]
C : ± 10 V DC (Impedance : 1 MΩ min.) [DC 0~10V, -10~+10V]
D : ± 5 V DC (Impedance : 1 MΩ min.) [DC 0~5V, 1~5V,-5~+5V]
E : ± 1 V DC (Impedance : 1 MΩ min.) [DC 0~100mV, 0~1V,-1~+1V]
F : ± 100mV DC (Impedance : 10 KΩ min.) [DC 0~10mV, 0~50mV, 0~100mV, -100~+100mV]

R : Other Special Spec.

Output Type & Range Selection (Available for Output 1 & Output 2)

0 : Not Used
1 : DC 4~20mA (Load Resistance : 0~600 Ω)
2 : DC 0~20mA (Load Resistance : 0~600 Ω)
3 : DC 1~5V (Load Resistance : 5 KΩ or more)
4 : DC 0~5V (Load Resistance : 5 KΩ or more)
5 : DC 2~10V (Load Resistance : 10 KΩ or more)
6 : DC 0~10V (Load Resistance : 10 KΩ or more)
7 : DC -5~+5V (Load Resistance : 10 KΩ or more)
8 : DC -10~+10V (Load Resistance : 10 KΩ or more)
9 : 2-Wire Transmitter(4~20mA DC) (9V ~ 35V DC)

R : Other Special Spec.

Power Supply

Z : AC 85~265V
Y : DC 18~32V
R : Other Special Spec.

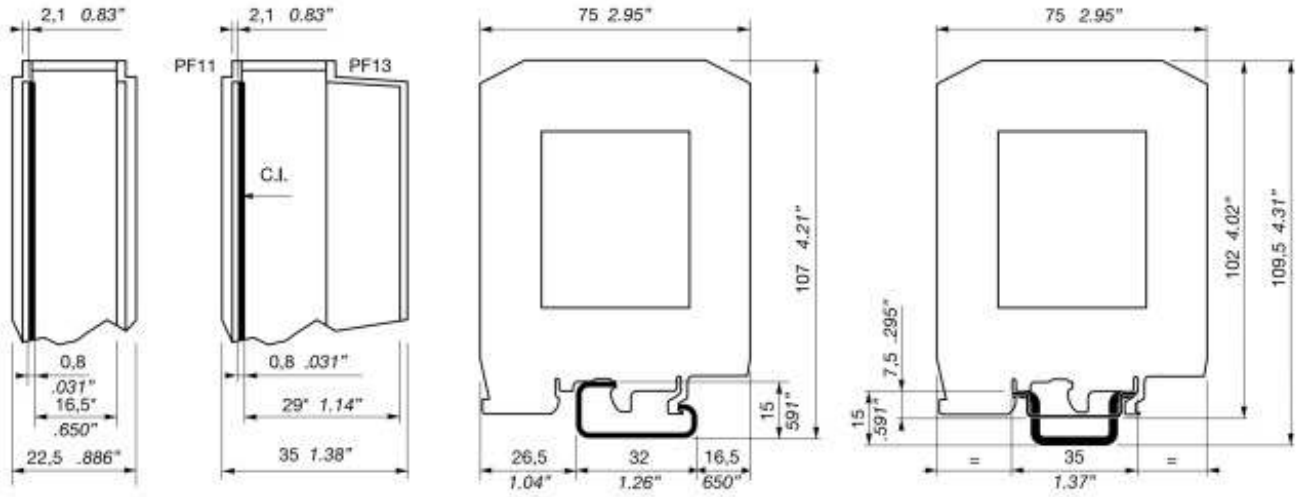
Function

0 : Normal(Input-A) [Input-A to Output-1,2]
1 : Square root(A)
2 : Square Root Extractor(A)
3 : Adder (A + B)
4 : Subtractor (A - B)
5 : Multiplier (A * B)
6 : Divider (A / B)
7 : Normal(Input-B) [Input-B to Output-1,2]
8 : Normal(Input-A and B) [Input-A to Output-1] and [Input-B to Output-2]

R : Specify function

DIMENSION & MOUNTING METHOD

* : Max. height of components

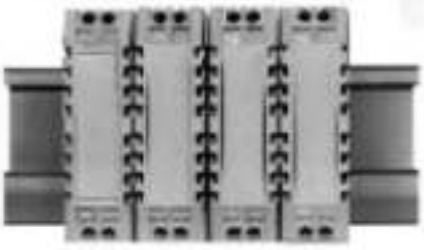


on rail EN 50035
35 x 7,5

on rail EN 50022

quick-connect tab
terminal dimensions

horizontal assembly
A



vertical assembly
B