

Plug-in Signal Conditioners M-UNIT

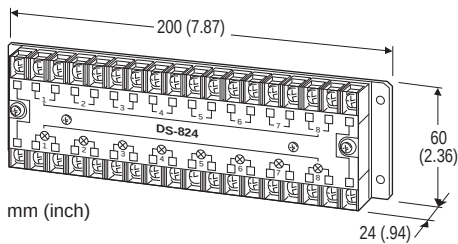
8-CH. CURRENT LOOP SUPPLY

Functions & Features

- Powering eight 4 – 20 mA DC current loops
- Supplying 24 V DC
- Space-saving 8-channel capacity
- Shortcircuit protection
- Smart transmitter applicable

Typical Applications

- Various two-wire transmitters



MODEL: DS-824-R

ORDERING INFORMATION

- Code number: (e.g. DS-824-R)

NO. OF CHANNELS

8: 8 points

SUPPLY OUTPUT

24: 24 V DC

POWER INPUT

DC Power

R: 24 V DC

GENERAL SPECIFICATIONS

Construction: Wall-mounted terminal block

Connection: M3.5 screw terminals

Number of loops: 8

SUPPLY OUTPUT

Output voltage: 15 – 21 V DC

= power input – [internal voltage drop + loss at the receiving resistor]

Current rating: ≤ 22 mA DC

- Shortcircuit Protection

Current limited: 30 mA max.

Protected time duration: No limit

INPUT SPECIFICATIONS

- DC Current: 4 – 20 mA DC

Input resistance: 250 Ω resistor incorporated

OUTPUT SPECIFICATIONS

- DC voltage: 1 – 5 V DC

Load resistance: ≥ 250 kΩ

INSTALLATION

Power input

- DC: 24 V DC ±10 % (ripple 10 % p-p max.)

[loop current + approx. 4 mA] per channel

Operating temperature: -5 to +60°C (23 to 140°F)

Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Surface

Weight: 380 g (0.84 lb)

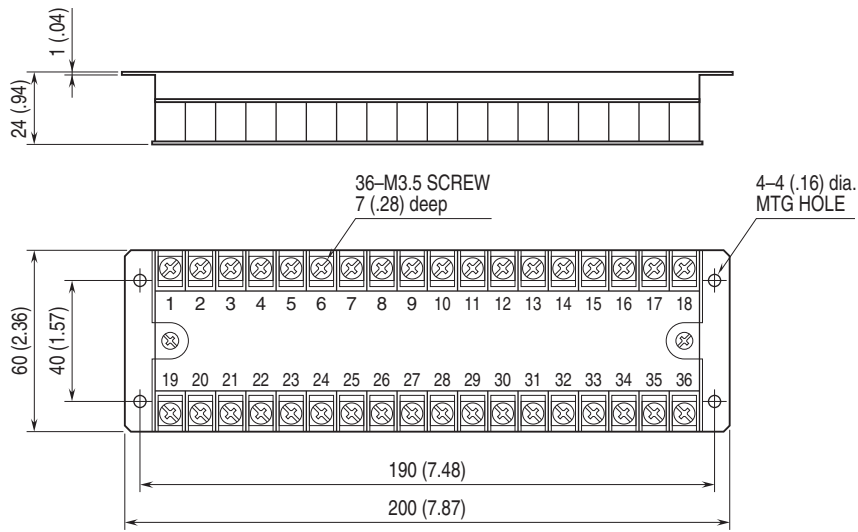
PERFORMANCE in percentage of span

Accuracy: ±0.1 % (accuracy of the receiving resistor)

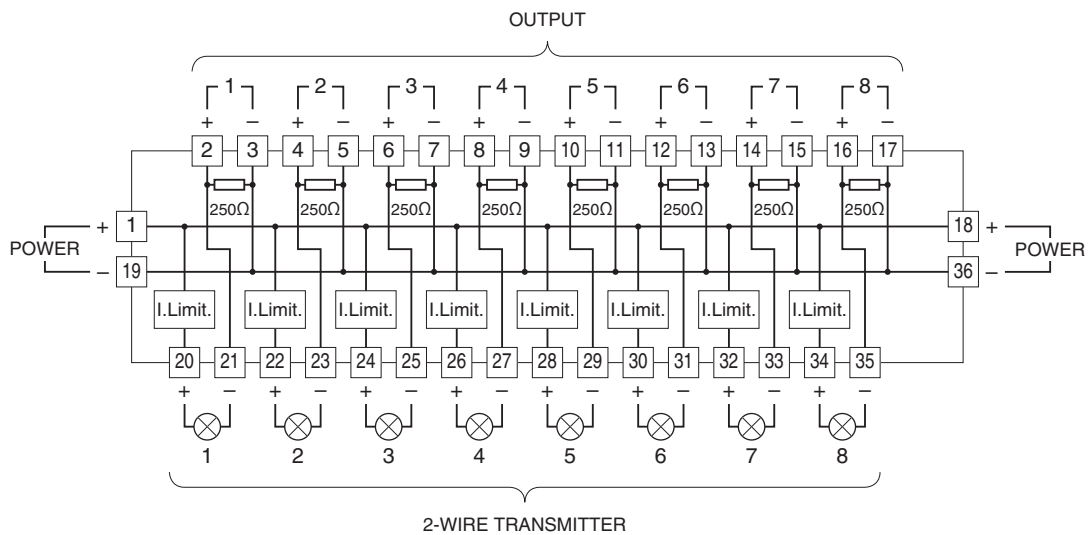
Temp. coefficient: ±0.003 %/°C (±0.002 %/°F) (temp. coefficient of the receiving resistor)

Line voltage effect to supply output: ±3 % over voltage range

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.