Plug-in Signal Conditioners K-UNIT

CURRENT LOOP SUPPLY

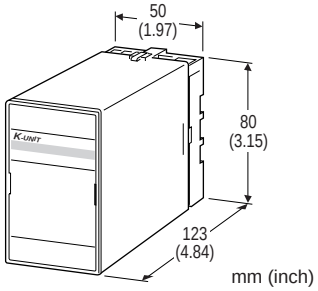
(non-isolated)

Functions & Features

- Powering a 4 – 20 mA DC current loop
- Output voltage 24 V or 42 V
- Electrically isolating output signal from power input
- Shortcircuit protection
- Applicable to smart transmitters
- High-density mounting
- CE marking

Typical Applications

- Various 2-wire transmitters
- 42 V output provides increased loop drive



MODEL: KD-[1]-[2]/CE

ORDERING INFORMATION

- Code number: KD-[1]-[2]/CE

Specify a code from below for each [1], [2].
(e.g. KD-24-H/CE)

[1] SUPPLY OUTPUT

24: 24 V DC
42: 42 V DC

INPUT

Current
4 – 20 mA DC

OUTPUT

Current
4 – 20 mA DC

[2] POWER INPUT

AC Power
G: 200 V AC
H: 220 V AC
J: 240 V AC

RELATED PRODUCTS

- Resistor module (model: REM-250)

GENERAL SPECIFICATIONS

Construction: Plug-in
Connection: M3.5 screw terminals
Housing material: Flame-resistant resin (black)
Isolation: Input or output to power

SUPPLY OUTPUT

Output voltage (with no load):
24 V use: 24 – 28 V DC
42 V use: 39 – 43 V DC
Current rating: ≤ 22 mA DC
• **Shortcircuit Protection**
Current limited: 40 mA max.
Protected time duration: No limit

INSTALLATION

Power input
Operational voltage range: Rating ±10 %
50/60 ±2 Hz
Approx. 2 VA (KD-24)
Approx. 3.2 VA (KD-42)
Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: Surface or DIN rail
Weight: 300 g (0.66 lbs)

PERFORMANCE in percentage of span

Line voltage effect
KD-24: ±0.5 % over voltage range
KD-42: ±1 % over voltage range
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 2300 V AC @1 minute
(input or output to power to ground)

STANDARDS & APPROVALS

CE conformity:
EMC Directive (2004/108/EC)
EMI EN 61000-6-4
EMS EN 61000-6-2
Low Voltage Directive (2006/95/EC)

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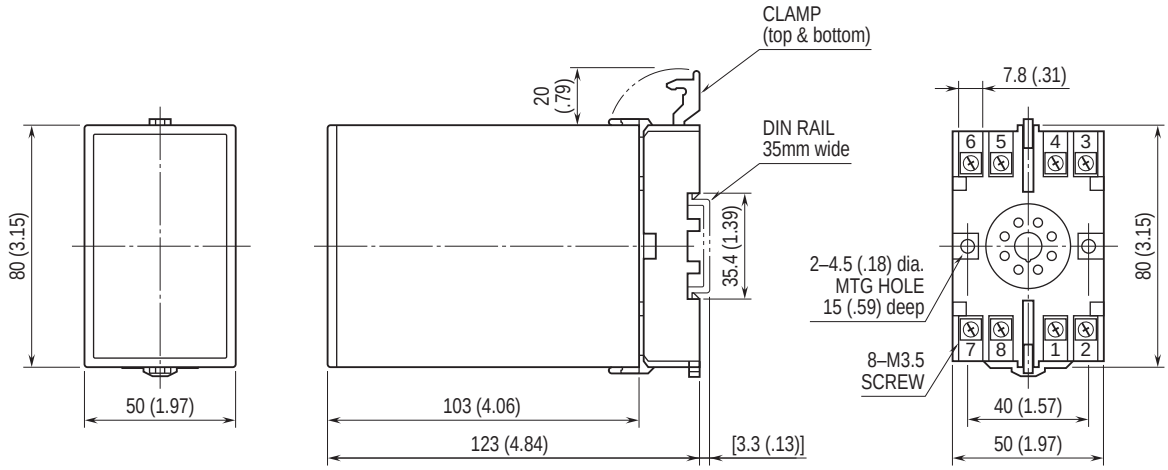
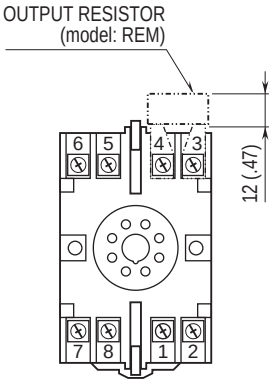
EN 61010-1
Installation Category II
Pollution Degree 2
Max. operating voltage 300 V
Input or output to power: Reinforced insulation

DIMENSIONS unit: mm (inch)



• When mounting, no extra space is needed between units.

TERMINAL ASSIGNMENTS unit: mm (inch)



Use output shunt resistor
for voltage output.

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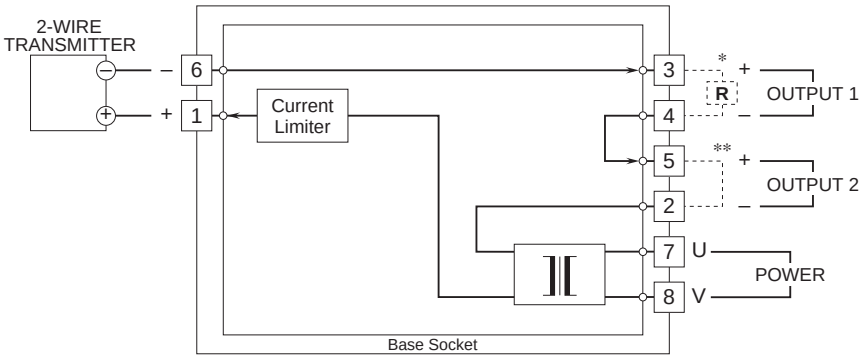
SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



* Use output shunt resistor for voltage output.
**Short across these terminals when not using output 2.
Remark: Use 250Ω load resistance when combined with a smart transmitter.

⚠ Specifications are subject to change without notice.

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