MODEL: KWYV

Plug-in Signal Conditioners K-UNIT

ISOLATOR

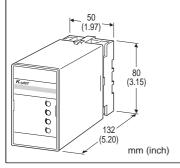
(two isolated outputs)

Functions & Features

- Standard instrumentation signal isolator with two outputs
- Isolation up to 2000 V AC
- · High-density mounting

Typical Applications

• Isolation between control room and field instrumentation



MODEL: KWYV-[1][2][3]-B[4]

ORDERING INFORMATION

• Code number: KWYV-[1][2][3]-B[4]

Specify a code from below for each [1] through [4]. (e.g. KWYV-6AA-B/Q)

• Specify the specification for option code /Q (e.g. /C01/S01)

When the user requires a current and a voltage output, specify the current to be the Output 1 which allows a greater load.

[1] INPUT

Current

A: 4 - 20 mA DC (Input resistance 250 Ω)

Voltage

6: 1 – 5 V DC (Input resistance 1 M Ω min.)

[2] OUTPUT 1

Current

A: 4 - 20 mA DC (Load resistance 600 Ω max.)

Voltage

6: 1 – 5 V DC (Load resistance 5000 Ω min.)

[3] **OUTPUT 2**

Current

A: 4 - 20 mA DC (Load resistance 350 Ω max.)

Voltage

6: 1 – 5 V DC (Load resistance 5000 Ω min.)

POWER INPUT

AC Power

B: 100 V AC

[4] OPTIONS

blank: none

/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to M-System's web site.)

/C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating

TERMINAL SCREW MATERIAL

/S01: Stainless steel

GENERAL SPECIFICATIONS

Construction: Plug-in

Connection: M3.5 screw terminals

Screw terminal: Chromated steel (standard) or stainless

steel

Housing material: Flame-resistant resin (black) **Isolation**: Input to output 1 to output 2 to power **Overrange output**: Approx. -10 to +120 % at 1 - 5 V

Zero adjustment: -5 to +5 % (front) Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

■ DC Current:

Shunt resistor attached to the input terminals (0.5 W)

INSTALLATION

Power input

•AC: Operational voltage range: rating ±10 %,

50/60 ±2 Hz, approx. 3 VA

Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Surface or DIN rail **Weight**: 400 g (0.88 lb)

PERFORMANCE in percentage of span

Accuracy: ±0.1 %

Temp. coefficient: ± 0.02 %/°C (± 0.01 %/°F) Response time: ≤ 0.5 sec. (0 - 90 %)

Line voltage effect: ± 0.1 % over voltage range Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC

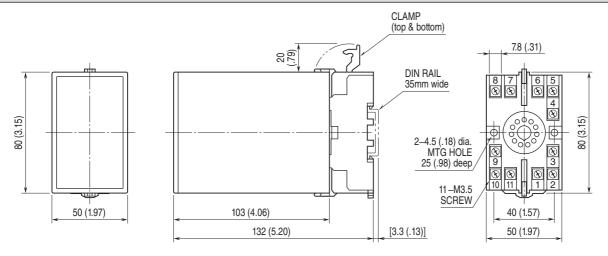


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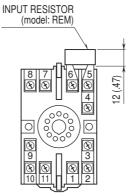
Dielectric strength: 2000 V AC @1 minute (input to output to power to ground)
1000 V AC @ 1 minute (output 1 to output 2)

DIMENSIONS unit: mm (inch)



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

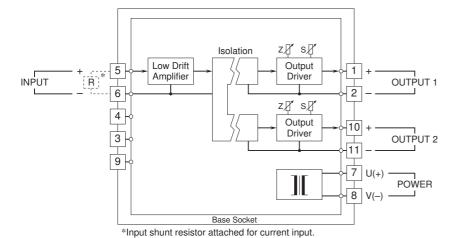
TERMINAL ASSIGNMENTS unit: mm (inch)



Input shunt resistor attached for current input.

MODEL: KWYV

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





Specifications are subject to change without notice.

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