MODEL: 6VS

Field-mounted Two-wire Signal Conditioners 6-UNIT

SIGNAL TRANSMITTER

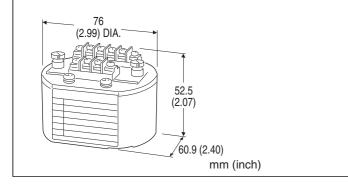
(field-selectable range)

Functions & Features

- Converting a DC input into an isolated 4 20 mA DC signal
- Field selectable input range
- Rugged enclosure

Typical Applications

• mV, voltage and current scaling



MODEL: 6VS-[1]

ORDERING INFORMATION

Code number: 6VS-[1]
 Specify a code from below for [1].
 (e.g. 6VS-U3)

- Input range (e.g. 1 5 V DC)
- Mounting adapter (e.g. surface mounting adapter plate, model: A-01)

Note: When a mounting adapter is required, specify mounting adapter. Not included without specifying.

[1] INPUT

U1: Range ± 100 mV; 3 mV - 100 mV span; input resistance 20 kΩ minimum **U2**: Range ± 1 V; 100 mV - 1 V span; input resistance 200 kΩ minimum **U3**: Range ± 10 V; 1 V - 10 V span;

RELATED PRODUCTS

input resistance 1 MΩ minimum

• Outdoor enclosure (model: 6BX-E)

PACKAGE INCLUDES...

• Mounting adapter surface mounting adapter plate (model: A-01)

Spring clip (model: A-02)

DIN rail mounting plate (model: A-31)

Note: When a mounting adapter is required, specify mounting adapter. Not included without specifying. When using in combination with outdoor enclosure (model: 6BX-E), use a spring clip (model: A-02).

GENERAL SPECIFICATIONS

Connection: M3 screw terminals (torque 0.6 N·m)

Screw terminal: Nickel-plated steel **Housing material**: Diecast aluminum

Isolation: Input to output **Output limit**: Approx. 120 %

Zero adjustment: -3 - +15 % (behind the access cover) **Span adjustment**: 90 to 110 % (behind the access cover)

DIP SW Setting: For input calibration (Refer to the instruction manual)

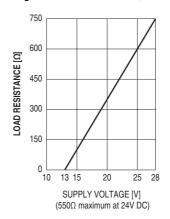
INPUT SPECIFICATIONS

Input: -10 - +10 V DC Span: Min. 3 mV, max. 10 V Offset: Max. 2 times span

OUTPUT SPECIFICATIONS

Output: 4 - 20 mA DC

Load resistance vs. supply voltage: Load Resistance (Ω) = (Supply Voltage (V) - 13 (V)) \div 0.02 (A) (including leadwire resistance)



INSTALLATION

Supply voltage: 13 - 28 V DC

Operating temperature: -5 to +70°C (23 to 158°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: DIN rail with mounting plate A-31; surface
mounting with adapter plate A-01; spring clip A-02 for 3-

inch hub

Weight: 220 g (0.49 lb)

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PERFORMANCE in percentage of span

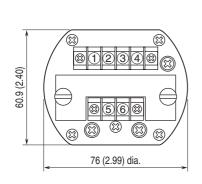
Accuracy: ±0.1 %

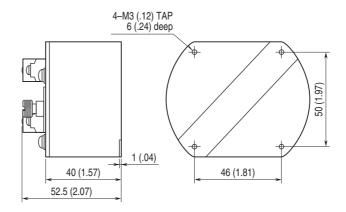
Temp. coefficient: ± 0.015 %/°C (± 0.008 %/°F) ± 0.02 %/°C (± 0.01 %/°F) at spans ≤ 10 mV Response time: ≤ 0.5 sec. (0 - 90 %)

Insulation resistance: ≥ 100 M Ω with 500 V DC Dielectric strength: 500 V AC @ 1 minute

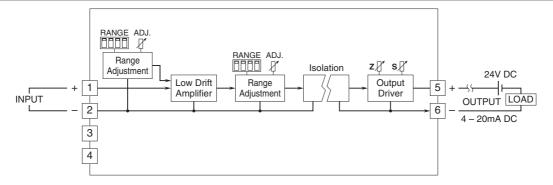
(input to output) 1500 V AC @ 1 minute (input or output to ground)

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]





SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



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Specifications are subject to change without notice.