

**ISOLATOR**

MODEL **M6SYV**

**MODEL & SUFFIX CODE SELECTION**

M6SYV-□□-□□

MODEL \_\_\_\_\_

INPUT / OUTPUT \_\_\_\_\_

AA : 4 – 20mA DC / 4 – 20mA DC  
 A6 : 4 – 20mA DC / 1 – 5V DC  
 6A : 1 – 5V DC / 4 – 20mA DC  
 66 : 1 – 5V DC / 1 – 5V DC  
 4W4W : -10 – +10V DC / -10 – +10V DC

POWER INPUT \_\_\_\_\_

M2 : 100 – 240V AC \*1  
 R : 24V DC

\*1. UL not available

OPTIONS \_\_\_\_\_

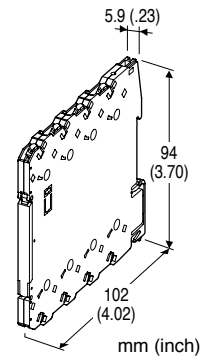
/K : Fast response  
 /UL : UL approval

**ORDERING INFORMATION**

Specify code number. (e.g. M6SYV-4W4W-R/K/UL)

**GENERAL SPECIFICATIONS**

**Connection:** Tension clamp  
**Applicable wire size:** 0.2 to 2.5 mm<sup>2</sup>, stripped length 8 mm  
**Housing material:** Flame-resistant resin (black)  
**Isolation:** Input to output to power  
**Zero\* & span adjustments:** ±2% (front)  
**Power LED:** Green light turns on when the power is supplied.  
 \*Output code 4W: Adjustable at 0V.



**Functions & Features**

- Maintenance-free tension clamp connection
- 5.9-mm wide ultra-slim design
- Low profile allows the M6S module mounted in a 120-mm deep panel
- Galvanically isolates process instrumentation signals
- High-density mounting
- Power indicator LED
- UL approval

**INPUT & OUTPUT**

■ INPUT

• **DC Current:** 4 – 20mA DC; 50Ω input resistor incorporated

• **DC Voltage:** 1 – 5V or -10 – +10V DC

**Input resistance:** 1MΩ minimum

■ OUTPUT

• **DC Current:** 4 – 20mA DC

**Load resistance:** 550Ω maximum

• **DC Voltage:** 1 – 5V or -10 – +10V DC

**Load resistance**

(Range) 1 – 5V : 5000 (Ω minimum)  
 -10 – +10V : 20k

## INSTALLATION

### Power input

**AC:** Operational voltage range 90 – 264V  
47 – 66 Hz, max. 2VA

**DC:** Operational voltage range 24V  $\pm$ 10%,  
approx. 0.45W; ripple 10% p-p max.

**Operating temperature:** -20 to +55°C (-4 to +131°F)

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

**Mounting:** DIN rail

**Dimensions:** W5.9×H94×D102 mm (0.23"×3.70"×4.02")  
See General Spec. Sheet Figure A-1.

**Weight:** 60 g (2.1 oz)

**Terminal assignment:** See General Spec. Sheet Figure A-1.

## PERFORMANCE in percentage of span

**Accuracy:**  $\pm$ 0.1%

**Temp. coefficient:**  $\pm$ 0.01%/°C ( $\pm$ 0.006%/°F)

**Response time:**  $\leq$ 0.5 second (0 – 90%)

Approx. 3.5 msec. w/ option /K, voltage output

Approx. 25 msec. w/ option /K, current output

**Line voltage effect:**  $\pm$ 0.1% over voltage range

**Insulation resistance:**  $\geq$ 100M $\Omega$  with 500V DC

**Dielectric strength:** 2000V AC @1 minute

(input to output to power to ground)

## STANDARDS & APPROVALS

**CE conformity:** EMC Directive (2004/108/EC)

EN 61000-6-4 (EMI)

EN 61000-6-2 (EMS)

Low Voltage Directive (2006/95/EC)

EN 61010-1

Installation Category II

Pollution degree 2

Max. operating voltage 300V

Input or output to power: Reinforced insulation

Input to output: Basic insulation

**Approval:** UL/C-UL nonincendive Class I, Division 2,

Groups A, B, C, and D hazardous locations

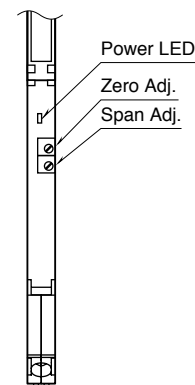
(ANSI/ISA-12.12.01, CAN/CSA-C22.2 No.213)

UL/C-UL general safety requirements

(UL 61010-1, CAN/CSA-C22.2 No.61010-1)

## FRONT VIEW

(With the cover open)



## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

