

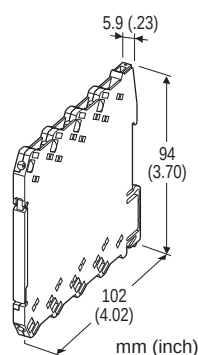
Euro Terminal Ultra-Slim Signal Conditioners M6D Series

CT TRANSMITTER

(clamp-on current sensor)

Functions & Features

- Converts AC current signal into a low-ripple standard process signal suitable to be handled for computer inputs
- 5.9-mm wide ultra-slim design
- Low profile allows the M6D module mounted in a 120-mm deep panel
- High-density mounting
- Power indicator LED



MODEL: M6DCTC-[1][2]-R

ORDERING INFORMATION

- Code number: M6DCTC-[1][2]-R
- Specify a code from below for each [1] and [2].
- Special output range (For codes Z & 0)
- (e.g. M6DCTC-56004W-R)
- Order Clamp-on current sensor separately.

[1] INPUT

Sensor CLSE

5R5 0 - 5 A AC

550: 0 - 50 A AC

5100: 0 - 100 A AC

5200: 0 - 200 A AC

5400: 0 - 400 A AC

5600: 0 - 600 A AC

Sensor CLSB (CE not available)

210: 0 - 10 A AC

215: 0 - 15 A AC

220: 0 - 20 A AC

230: 0 - 30 A AC

240: 0 - 40 A AC

250: 0 - 50 A AC

260: 0 - 60 A AC

275: 0 - 75 A AC

2100: 0 - 100 A AC

2125: 0 - 125 A AC

2150: 0 - 150 A AC

2175: 0 - 175 A AC

2200: 0 - 200 A AC

2225: 0 - 225 A AC

2250: 0 - 250 A AC

2300: 0 - 300 A AC

2350: 0 - 350 A AC

2400: 0 - 400 A AC

2500: 0 - 500 A AC

2600: 0 - 600 A AC

[2] OUTPUT

Current

A: 4 - 20 mA DC (Load resistance 550 Ω max.)

D: 0 - 20 mA DC (Load resistance 550 Ω max.)

G: 0 - 1 mA DC (Load resistance 11 k Ω max.)

Z: Specify current (See OUTPUT SPECIFICATIONS)

Voltage

3: 0 - 1 V DC (Load resistance 1000 Ω min.)

4: 0 - 10 V DC (Load resistance 10 k Ω min.)

5: 0 - 5 V DC (Load resistance 5000 Ω min.)

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

4W: -10 - +10 V DC (Load resistance 20 k Ω min.)

5W: -5 - +5 V DC (Load resistance 10 k Ω min.)

0: Specify voltage (See OUTPUT SPECIFICATIONS)

POWER INPUT

DC Power

R: 24 V DC

(Operational voltage range 24 V $\pm$ 10 %, ripple 10 %p-p max.)

RELATED PRODUCTS

- Clamp-on current sensor (model: CLSB)
 - Clamp-on current sensor (model: CLSE)
- (Select "CLSE-x/CE" to comply with CE for the combination with the sensor.)

GENERAL SPECIFICATIONS

Connection

Input and output: Euro terminal (torque 0.3 N·m)

Power input: Via the Installation Base (model: M6DBS)
or Euro terminal (torque 0.3 N·m)

Applicable wire size: 0.2 to 2.5 mm²

Housing material: Flame-resistant resin (black)

Isolation: Input to output to power

Input waveform

RMS sensing: Up to 15 % of 3rd harmonic content
Zero adjustment: -2 to +2% (front)
 (Output code 4W, 5W: Adjustable at 0V. No output below 0mA for the code D.)
Span adjustment: 98 to 102 % (front)
Power LED: Green light turns on when the power is supplied.

INPUT SPECIFICATIONS

- **Clamp-on current sensor CLSE**
 (Sensor model No.: AC input)
 CLSE-R5: 0 - 5 A
 CLSE-05: 0 - 50 A
 CLSE-10: 0 - 100 A
 CLSE-20: 0 - 200 A
 CLSE-40: 0 - 400 A
 CLSE-60: 0 - 600 A
 Frequency: 50 / 60 Hz
 Operational range: 5 - 120 % of rating
 Overload capacity:
 CLSE-R5: 10 A continuous
 CLSE-05: 60 A continuous
 CLSE-10: 120 A continuous
 CLSE-20: 240 A continuous
 CLSE-40: 480 A continuous
 CLSE-60: 720 A continuous
 Be sure that the input voltage is of 480 V or less.
- **Clamp-on current sensor CLSB**
 (Sensor model No.: AC input)
 CLSB-05:
 0 - 10 A, 0 - 15 A, 0 - 20 A
 0 - 30 A, 0 - 40 A, 0 - 50 A
 CLSB-10:
 0 - 60 A, 0 - 75 A, 0 - 100 A
 CLSB-20:
 0 - 125 A, 0 - 150 A, 0 - 175 A
 0 - 200 A, 0 - 225 A, 0 - 250 A
 CLSB-40:
 0 - 300 A, 0 - 350 A, 0 - 400 A
 CLSB-60:
 0 - 500 A, 0 - 600 A
 Frequency: 50 / 60 Hz
 Operational range: 5 - 120 % of rating
 Overload capacity:
 CLSB-05: 100 A continuous
 CLSB-10: 200 A continuous
 CLSB-20: 300 A continuous
 CLSB-40: 600 A continuous
 CLSB-60: 720 A continuous
 Be sure that the input voltage is of 440 V or less.

OUTPUT SPECIFICATIONS

- **DC Current:** 0 - 20 mA DC
 Minimum span: 1 mA
 Offset: Max. 1.5 times span
 Load resistance: Output drive 11 V max.
- **DC Voltage:** 0 - 10 V DC
 Minimum span: 1 V
 Offset: Max. 1.5 times span
 Load resistance: Output drive 1 mA max.; at ≥ 1 V

INSTALLATION

Power consumption: Approx. 0.5 W
Operating temperature: -20 to +55°C (-4 to +131°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: Installation Base (model: M6DBS) or DIN rail
Weight: 60 g (2.1 oz)

PERFORMANCE in percentage of span

Accuracy: ± 0.5 % with input 5 - 100 %
Temp. coefficient: ± 0.015 %/°C (± 0.008 %/°F)
Response time: ≤ 1 sec. (0 - 90 %)
Line voltage effect: ± 0.1 % over voltage range
Insulation resistance: ≥ 100 M Ω with 500 V DC
Dielectric strength: 2000 V AC @1 minute (input to output to power to ground)

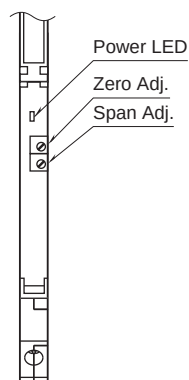
STANDARDS & APPROVALS

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

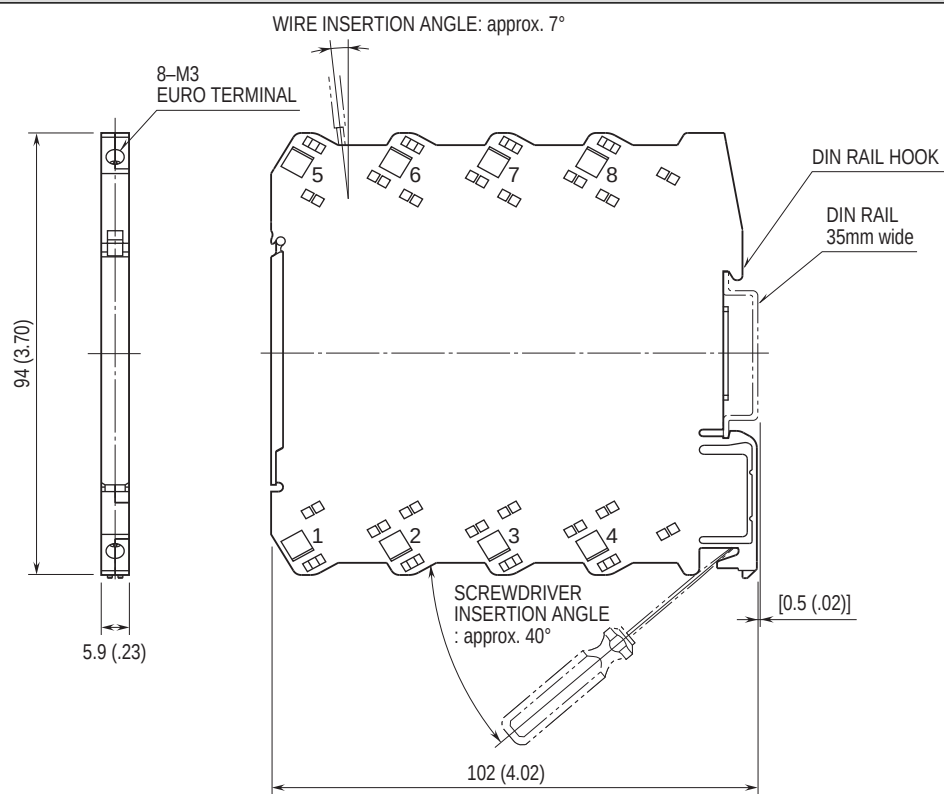


EXTERNAL VIEW

(With the cover open)

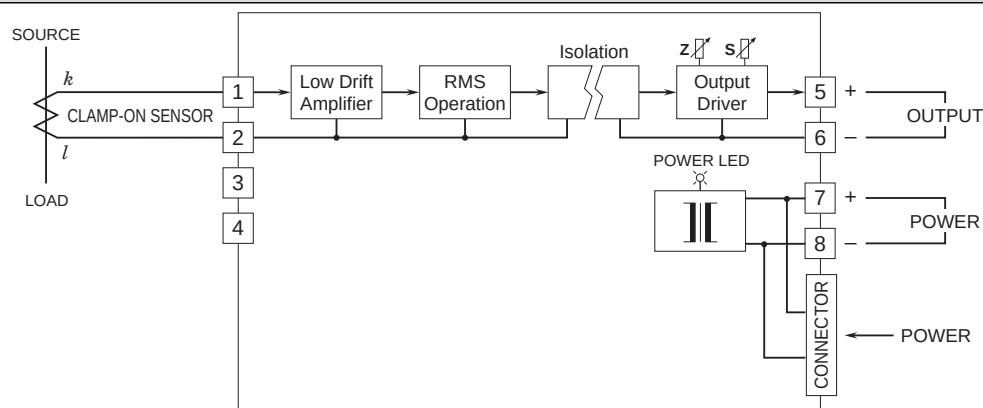


DIMENSIONS unit: mm (inch)



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.