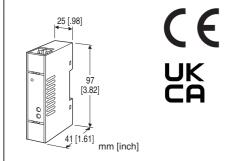
MODEL: M5CT

Super-mini Terminal Block Signal Conditioners M5-UNIT

CT TRANSMITTER

Functions & Features

- Converts an alternating current from a current transformer into a standard process signal
- True RMS sensing
- High-density mounting
- Power LED



MODEL: M5CT-[1][2]-[3][4]

ORDERING INFORMATION

• Code number: M5CT-[1][2]-[3][4] Specify a code from below for each of [1] through [4].

(e.g. M5CT-14W-R/Q)

- Special output range (For codes Z & 0)
- Specify the specification for option code /Q (e.g. /C01/S01)

[1] INPUT

Current

1: 0 - 1 A AC (Input burden \leq 0.1 VA)

5: 0 - 5 A AC (Input burden \leq 0.5 VA)

[2] **OUTPUT**

Current

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

Z: Specify current (See OUTPUT SPECIFICATIONS)

4: 0 - 10 V DC (Load resistance $1000 \Omega \text{ min.}$)

5: $0 - 5 \text{ V DC (Load resistance } 500 \Omega \text{ min.)}$

6: 1 – 5 V DC (Load resistance 500 Ω min.)

4W: -10 - +10 V DC (Load resistance 8000 Ω min.)

5W: -5 - +5 V DC (Load resistance 4000 Ω min.) **0**: Specify voltage (See OUTPUT SPECIFICATIONS)

[3] POWER INPUT

AC Power

M: 85 - 264 V AC (Operational voltage range 85 - 264 V,

47 - 66 Hz)

(CE or UKCA not available)

DC Power **R**: 24 V DC

(Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

[4] OPTIONS

blank: none

/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to our web site.)

/C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating TERMINAL SCREW MATERIAL

/S01: Stainless steel

GENERAL SPECIFICATIONS

Construction: Terminal block

Connection: M3.5 screw terminals (torque 0.8 N·m)

Screw terminal: Nickel-plated steel (standard) or stainless

steel

Housing material: Flame-resistant resin (black)

Isolation: Input to output to power

Input waveform

RMS sensing: Up to 15 % of 3rd harmonic content Overrange output: Approx. 0 to 110 % at 1 – 5 V

Zero adjustment: -2 to +2 % (front) **Span adjustment**: 98 to 102 % (front)

Power indicator LED: Green LED turns on when the power is

supplied.

INPUT SPECIFICATIONS

Frequency: 50 or 60 Hz

Overload capacity: 500 % of rating for 5 sec., 120 %

continuous

Operational range: 5 - 120 % of rating

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

MODEL: M5CT

Load resistance: Output drive 10 mA max.; at \geq 1 V

INSTALLATION

Power Consumption

•AC:

Approx. 2 VA at 100 V Approx. 3 VA at 200 V Approx. 3 VA at 264 V •DC: Approx. 2 W

Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 0 to 90 %RH (non-condensing)

Mounting: DIN rail **Weight**: 80 g (2.8 oz)

PERFORMANCE in percentage of span

Accuracy: ±0.3 % with input 5 - 100 %

(Input 10 – 100 % for the output codes 4W and 5W) Temp. coefficient: ± 0.015 %/°C (± 0.008 %/°F)

Response time: ≤ 0.5 sec. (0 - 90 %)

Ripple: 0.5 %p-p max.

Line voltage effect: ± 0.1 % over voltage range Insulation resistance: ≥ 100 M Ω with 500 V DC

Dielectric strength (input to output to power to ground)

DC powered: 2000 V AC @1 minute AC powered: 1500 V AC @1 minute

STANDARDS & APPROVALS

EU conformity:

EMC Directive

EMI EN 61000-6-4

EMS EN 61000-6-2

RoHS Directive

UK conformity (UKCA):

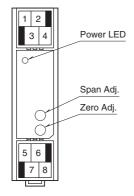
The UK legislations and designated standards are

equivalent to the applicable EU directives.

(Refer to our website for more information about the

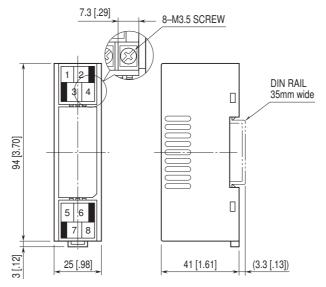
legislations and designated standards.)

FRONT VIEW



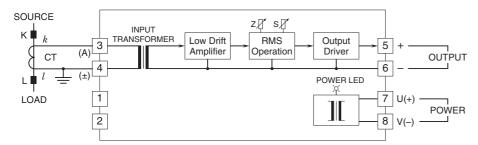
MODEL: M5CT

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



V

Specifications are subject to change without notice.