Product data sheet
Characteristics

TMC2AI2
cartridge M221 - 2 analog current inputs - I/O extension



Main

Range of product	Modicon M221
Product or component type	Analogue input cartridge
Product compatibility	Modicon M221C
Analogue input number	2

Complementary

Analogue input type	Voltage, input range: 0...10 V Current, input range: 0...20 mA Current, input range: 4...20 mA
Analogue input resolution	12 bits
LSB value	3.91 µA (current), input range: 4...20 mA 4.88 µA (current), input range: 0...20 mA 2.44 mV (voltage), input range: 0...10 V
Conversion time	20 ms
Sampling duration	10 ms
Absolute accuracy error	+/- 1 % of full scale +/- 0.1 % of full scale at 25 °C
Temperature drift	+/- 0.02 %FS/°C
Repeat accuracy	+/- 0.5 %FS
Non-linearity	+/- 0.01 %FS
Cross talk	<= 1 LSB
Type of cable	Twisted shielded pairs cable
Electrical connection	2 screw terminal blocks (pitch 3.81 mm) 1.5 mm² 3 for inputs
Cable length	<= 30 m twisted shielded pairs cable (input)
Insulation	Non-insulated between analogue input and internal logic
Height	41 mm
Depth	15 mm
Width	35 mm
Product weight	0.015 kg
Permissible continuous overload	40 mA (current) 13 V (voltage)
Input impedance	>= 1 MOhm voltage <= 250 Ohm current

Environment

Immunity to microbreaks	10 ms

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Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1415 - Schneider Electric declaration of conformity
REACh	Reference contains SVHC above the threshold - go to CaP for more details
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Available Download End Of Life Manual