

I/O utv. 4 inn  $\pm 10V/0-20mA/4-20mA$ ,kit

## Partnumber: TM5SAI 4LK

Wholesalernumber:

EAN 13 code: 3595864154732

Composition kit of I/O(TM5SAI4L) + term. block(TM5ACTB12) + bus base(TM5ACBM11)

### Technical information

#### ► Compatibility

range compatibility	Modicon LMC058
	Modicon M258
product compatibility	motion controller
	logic controller

#### ► Functional

device composition	bus sub-base TM5ACBM11 terminal block TM5ACTB12 I/O module TM5SAI4L
analogue input number	4
analogue input type	current 0...20 mA/4...20 mA, differential voltage +/- 10 V, differential
analogue input resolution	12 bits + sign +/- 10 V 12 bits 0...20 mA/4...20 mA
measurement resolution	2.441 mV, +/- 10 V 4.883 $\mu$ A, 0...20 mA/4...20 mA
sampling duration	1 ms, analogue input type: all inputs with filtering 400 $\mu$ s, analogue input type: all inputs without filtering
measurement error	< 0.08 % of full scale, 0...20 mA/4...20 mA at 25 °C < 0.08 % of full scale, +/- 10 V, +/- 10 V at 25 °C
temperature coefficient	+/- 0.009 %FS/°C, analogue input type: current +/- 0.006 %FS/°C, analogue input type: voltage
non-linearity	< 0.025 %FS, analogue input type: voltage < 0.05 %FS, analogue input type: current
isolation	no insulation between channels 500 Vrms AC insulation between channel and bus
local signalling	1 LED green for power supply 1 LED red for power supply 4 LEDs green for input status
marking	CE
► <b>Electrical</b>	
input impedance	$\geq$ 20 mOhm voltage
load impedance ohmic	$\leq$ 400 Ohm current)
[Us] rated supply voltage	24 V DC -15...20 %
current consumption	2 mA 5 V DC bus 46 mA 24 V DC input/output
power dissipation in W	$\leq$ 1.11 W W
surge withstand	0.5 kV differential mode conforming to EN/IEC 61000-4-5 1 kV common mode conforming to EN/IEC 61000-4-5
► <b>Connections</b>	
type of cable	shielded cable
► <b>Communication</b>	
common mode rejection	$\geq$ 70 dB dB
► <b>Product identification</b>	
range of product	Modicon TM5
product or component type	analog input module
colour	white
supply	internal

## ► Physical characteristics

product weight 0.065 kg kg

## ► Environment

ambient air temperature for operation 0...50 °C (vertical installation)  
0...55 °C without derating factor (horizontal installation)  
0...60 °C with derating factor (horizontal installation)

ambient air temperature for storage -25...70 °C °C

relative humidity 5...95 % without condensation

IP degree of protection IP20 conforming to IEC 61131-2

pollution degree 2 conforming to IEC 60664

operating altitude 0...2000 m m

storage altitude 0...3000 m m

vibration resistance 1 gn (f= 8.4...150 Hz) DIN rail

3.5 mm (f= 5...8.4 Hz) DIN rail

shock resistance 15 gn for 11 ms

resistance to electrostatic discharge 4 kV on contact conforming to EN/IEC 61000-4-2

8 kV in air conforming to EN/IEC 61000-4-2

resistance to electromagnetic fields 1 V/m 2...2.7 GHz conforming to EN/IEC 61000-4-3

10 V/m 80...2000 MHz conforming to EN/IEC 61000-4-3

resistance to fast transients 1 kV I/O conforming to EN/IEC 61000-4-4

1 kV shielded cable conforming to EN/IEC 61000-4-4

2 kV power lines conforming to EN/IEC 61000-4-4

electromagnetic compatibility EN/IEC 61000-4-6

disturbance radiated/conducted CISPR 11

## ► Certifications and standards

standards CSA C22.2 No 142

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IEC 61131-2

IEC 61131-2

UL 508

UL 508

CSA C22.2 No 213

CSA C22.2 No 213

product certifications

CSA

C-Tick

cULus

GOST-R

## Supplier information

Supplier: Schneider Electric Norge AS

Fax: + 47 64 98 57 01

Web: <http://www.schneider-electric.no>

Adress: Deliveien 10, 1540 Vestby

Phone: +47 64 98 56 00

e-Mail: [kundesenter@no.schneider-electric.com](mailto:kundesenter@no.schneider-electric.com)