Product datasheet

Specifications

Green Premium™

Counter module, Modicon TM5, 1 HSC incremental, 100 KHz

TM5SE1IC01024

Main

Range Of Product	Modicon TM5
Product Or Component Type	Counter module
Product Specific Application	Downcounting Frequency generator Upcounting Period measurement Frequency meter Axis following with encoder
Function Of Module	2 x 24 V DC auxiliary inputs 24 V DC encoder power supply
Discrete Input Number	1
Counting Frequency	100 kHz
Encoder Type	1 incremental encoder

Complementary

Range Compatibility	Modicon LMC058 Modicon M258
Product Compatibility	Logic controller Motion controller
Counter Inputs Resolution	16 bits/32 bits
Maximum Cycle Time	2 ms
Input Compatibility	1 incremental encoder (24 V)
Isolation	500 Vrms AC insulation between channel and bus
Discrete Input Logic	Sink
Discrete Input Voltage	24 V DC
Discrete Input Current	3.3 mA at 24 V
Input Resistance	7.19 kOhm
Current Consumption	2 mA at 5 V DC bus 58 mA at 24 V DC input/output
Maximum Power Dissipation In W	1.41 W
Marking	CE
Net Weight	0.025 kg

Environment

Standards	IEC 61131-2 CSA C22.2 No 213 CSA C22.2 No 142 UL 508
Product Certifications	CSA C-Tick GOST-R cULus
Ambient Air Temperature For Operation	0…55 °C without derating (horizontal installation) 0…60 °C with derating factor (horizontal installation) 0…50 °C (vertical installation)
Ambient Air Temperature For Storage	-25…70 °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
Storage Altitude	0…3000 m
Vibration Resistance	1 gn at 8.4…150 Hz on DIN rail 3.5 mm at 5…8.4 Hz on DIN rail
Shock Resistance	15 gn for 11 ms
Resistance To Electrostatic Discharge	4 kV on contact conforming to IEC 61000-4-2 8 kV in air conforming to IEC 61000-4-2
Resistance To Electromagnetic Fields	1 V/m 2...2.7 GHz conforming to IEC 61000-4-3 10 V/m 80...2000 MHz conforming to IEC 61000-4-3
Resistance To Fast Transients	1 kV (I/O) conforming to IEC 61000-4-4 1 kV (shielded cable) conforming to IEC 61000-4-4 2 kV (power lines) conforming to IEC 61000-4-4
Surge Withstand	0.5 kV differential mode conforming to IEC 61000-4-5 1 kV common mode conforming to IEC 61000-4-5
Electromagnetic Compatibility	EN/IEC 61000-4-6
Disturbance Radiated/Conducted	CISPR 11

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.900 cm
Package 1 Width	5.900 cm
Package 1 Length	10.400 cm
Package 1 Weight	38.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	97
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.036 kg

Contractual warranty

Warranty	12 months

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium ›

Guide to assess a product's sustainability ›

Transparency   RoHS/REACh

Well-being performance

✓ Reach Free Of Svhc

✓ Toxic Heavy Metal Free

✓ Mercury Free

✓ Rohs Exemption Information   Yes

✓ Pvc Free

Certifications & Standards

Reach Regulation   REACh Declaration

Eu Rohs Directive   Pro-active compliance (Product out of EU RoHS legal scope)

                                      EU RoHS Declaration

China Rohs Regulation   China RoHS declaration

Environmental Disclosure   Product Environmental Profile

Weee   The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
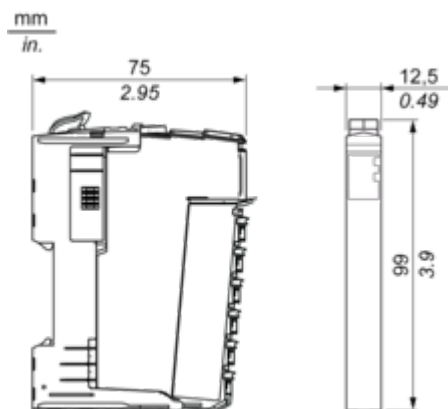
Circularity Profile   End of Life Information
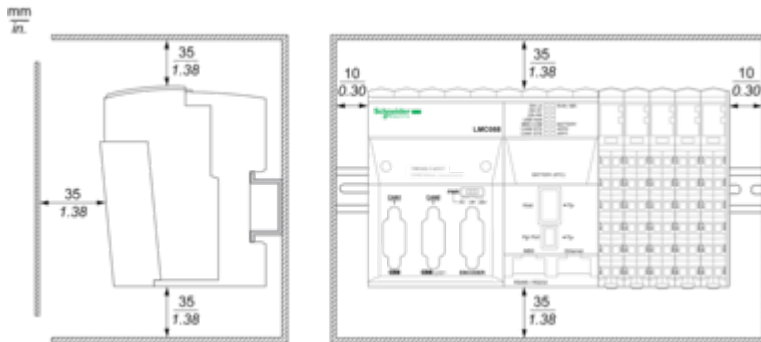
Dimensions Drawings

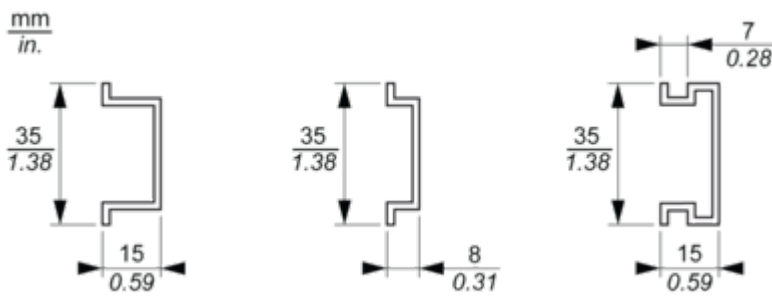**TM5 Slice**

Dimensions

Mounting and Clearance

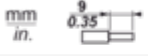**TM5 System**

Spacing Requirements

Mounting on a DIN Rail
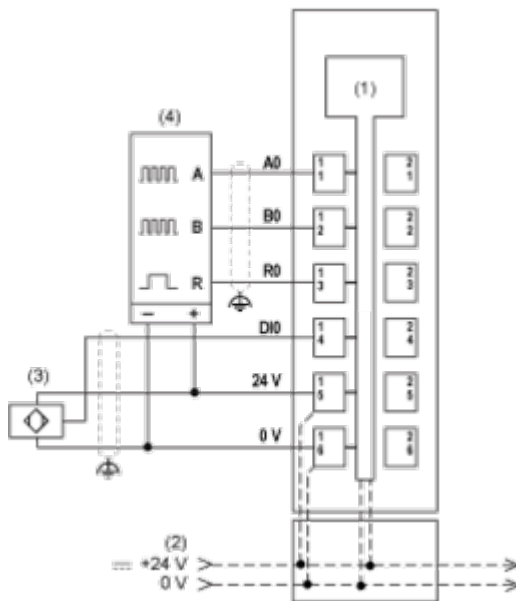
Connections and Schema

TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm / in.	9 / 0.35				
mm²		0,08…2,5	0,25…2,5	0,25…1,5	2 x 0,25…2 x 0,75
AWG		28…14	24…14	24…16	2 x 24…2 x 18

Electronic Module 1 HSC INC 100 KHz

Wiring Diagram

(1) Internal electronics
(2) 24 Vdc I/O power segment integrated into bus base
(3) 3-wire sensor
(4) Encoder