# **Product datasheet**

Specifications





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

TM5SE1IC01024

## Main

Range Of Produc	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	
<b>Current Consumption</b>	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	055 °C without derating (horizontal installation) 060 °C with derating factor (horizontal installation) 050 °C (vertical installation)			
Ambient Air Temperature For Storage	-2570 °C			
Relative Humidity	595 % without condensation			
Ip Degree Of Protection	IP20 conforming to IEC 61131-2			
Pollution Degree	2 conforming to IEC 60664			
Operating Altitude	02000 m			
Storage Altitude	03000 m			
Vibration Resistance	1 gn at 8.4150 Hz on DIN rail 3.5 mm at 58.4 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 22.7 GHz conforming to IEC 61000-4-3 10 V/m 802000 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 18 months



**Green Premium**<sup>TM</sup> **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> 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

<b>②</b>	Reach Free Of Svhc	
<b>⊘</b>	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information Yes	
<b>Ø</b>	Pvc Free	

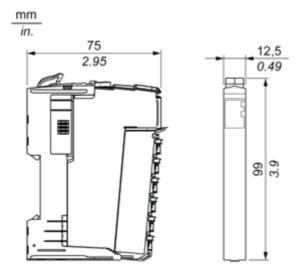
#### **Certifications & Standards**

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		
<b>Environmental Disclosure</b>	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

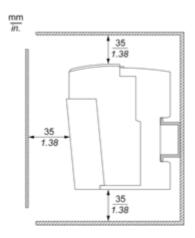
#### **Dimensions**

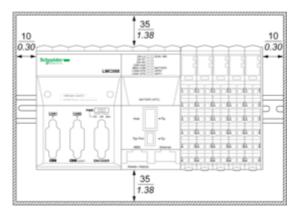


Mounting and Clearance

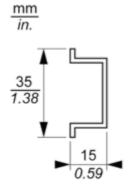
#### TM5 System

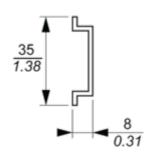
#### **Spacing Requirements**

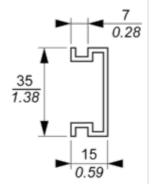




#### Mounting on a DIN Rail







# **Product datasheet**

## TM5SE1IC01024

Connections and Schema

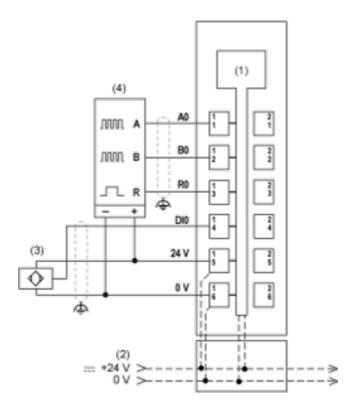
#### **TM5 System Wiring Recommendations**

#### Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in.	0.35		Ω		
	mm²	0,082,5	0,252,5	0,251,5	2 x 0,252 x 0,75
	AWG	2814	2414	2416	2 x 242 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