TM5SE2IC01024





Main

-		
Range of product	Modicon TM5	
Product or component type	Counter module	
Product specific application	Upcounting Period measurement Frequency generator Frequency meter Downcounting Axis following with encoder	
Function of module	2 x 24 V DC auxiliary inputs 24 V DC encoder power supply	
Discrete input number	2	
Counting frequency	100 kHz	
Encoder type	2 incremental encoders	

Complementary

Range compatibility	Modicon LMC058 Modicon M258	
Product compatibility	Motion controller Logic controller	
Counter inputs resolution	16 bits/32 bits	_
Cycle time	<= 2 ms	_
Input compatibility	2 incremental encoders (24 V)	_
Isolation	500 Vrms AC insulation between channel and bus	
Discrete input logic	Sink	
Discrete input voltage	24 V DC	
Discrete input current	1.3 mA at 24 V	
Input resistance	18.4 kOhm	
Current consumption	2 mA 5 V DC bus 63 mA 24 V DC input/output	
Power dissipation in W	<= 1.51 W	
Marking	CE	
Product weight	0.06 lb(US) (0.025 kg)	

Environment

standards	CSA C22.2 No 142 IEC 61131-2 UL 508 CSA C22.2 No 213		
product certifications	CSA C-Tick CULus GOST-R		
ambient air temperature for operation	32122 °F (050 °C) vertical installation 32131 °F (055 °C) without derating factor horizontal installation 32140 °F (060 °C) with derating factor horizontal installation		
ambient air temperature for storage	-13158 °F (-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	06561.68 ft (02000 m)		
storage altitude	09842.52 ft (03000 m)		

vibration resistance	1 gn 8.4150 Hz DIN rail 3.5 mm 58.4 Hz DIN rail		
shock resistance	15 gn 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	0.91 V/yd (1 V/m) 22.7 GHz conforming to EN/IEC 61000-4-3 9.14 V/yd (10 V/m) 802000 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		
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		
electromagnetic compatibility	EN/IEC 61000-4-6		
disturbance radiated/conducted	CISPR 11		

Offer Sustainability

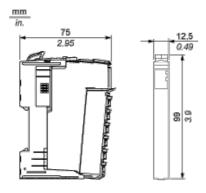
Green Premium product	Green Premium product
Compliant - since 1039 - Schneider Electric declaration of conformity	Compliant - since 1039 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.p65warnings.ca.gov	For more information go to www.p65warnings.ca.gov

Contractual warranty

144	10 11
Warranty period	18 months

TM5 Slice

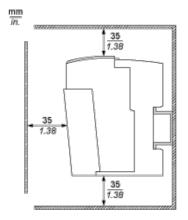
Dimensions

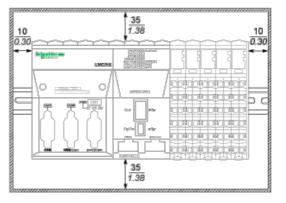


TM5 System

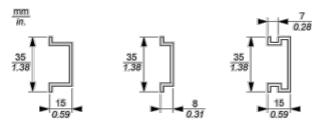
Spacing Requirements







Mounting on a DIN Rail



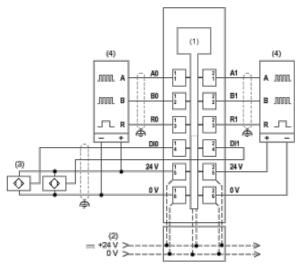
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm ln.	0.35		=	#D=	8D-
	mm²	0,082,5	0,252,5	0,251,5	2 x 0,252 x 0,75
	AWG	2814	24 14	2416	2 x 242 x 18

Electronic Module 2 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