

Product availability: Non-Stock - Not normally stocked in distribution facility



### Main

Range of product	Modicon TM5
Product or component type	Counter module
Product specific application	Frequency meter Frequency generator Upcounting Axis following with encoder Downcounting Period measurement
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	Motion controller Logic controller
Counter inputs resolution	16 bits/32 bits
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 5 V DC bus 58 mA 24 V DC input/output
Power dissipation in W	<= 1.41 W
Marking	CE
Product weight	0.06 lb(US) (0.025 kg)

### Environment

Standards	UL 508 CSA C22.2 No 213 CSA C22.2 No 142 IEC 61131-2
Product certifications	C-Tick CSA GOST-R cULus
Ambient air temperature for operation	32...131 °F (0...55 °C) without derating factor horizontal installation 32...140 °F (0...60 °C) with derating factor horizontal installation 32...122 °F (0...50 °C) vertical installation
Ambient air temperature for storage	-13...158 °F (-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...6561.68 ft (0...2000 m)
Storage altitude	0...9842.52 ft (0...3000 m)

Vibration resistance	1 gn 8.4...150 Hz DIN rail 3.5 mm 5...8.4 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) 2...2.7 GHz conforming to EN/IEC 61000-4-3 9.14 V/yd (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
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

## Ordering and shipping details

Category	22532 - M258 PLC
Discount Schedule	PC12
GTIN	00785901822813
Nbr. of units in pkg.	1
Package weight(Lbs)	8.0000000000000002E-2
Returnability	N
Country of origin	AT

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1039 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available <a href="#">Product Environmental Profile</a>
Product end of life instructions	Available <a href="#">End Of Life Information</a>
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
- - - - - More information	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

## Contractual warranty

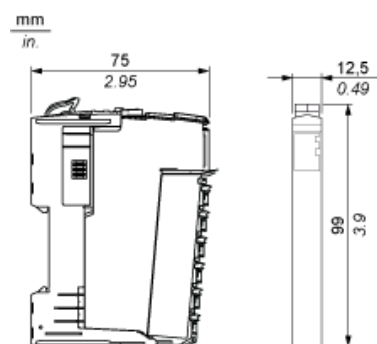
Warranty period	18 months
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TM5 Slice

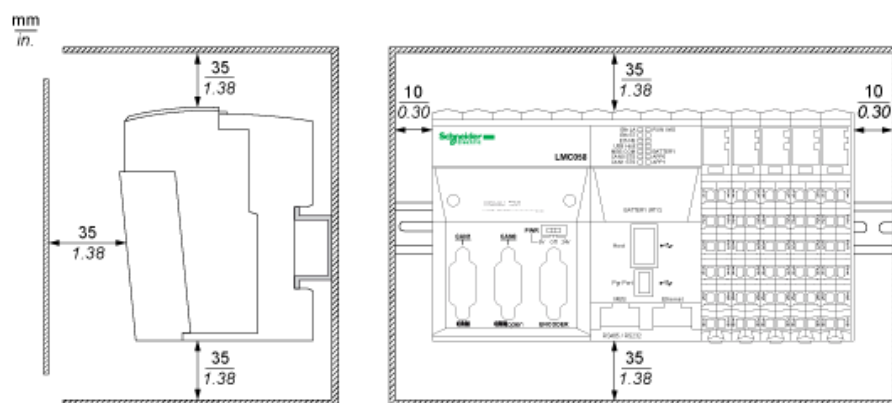
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Dimensions

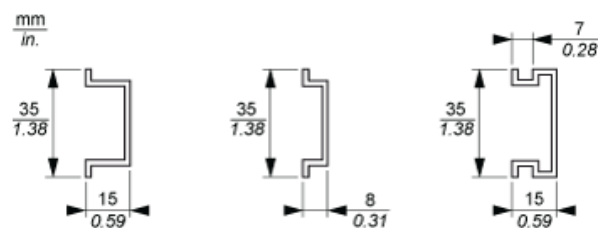


## TM5 System

### Spacing Requirements







### Mounting on a DIN Rail



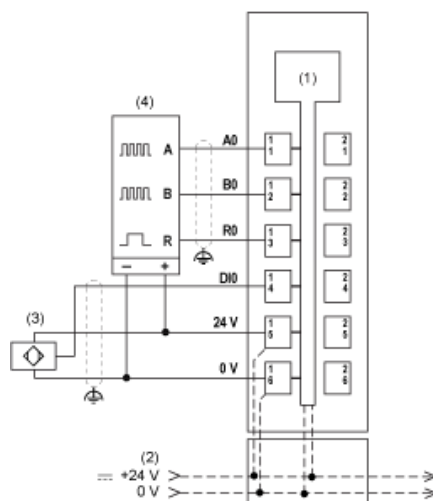
## TM5 System Wiring Recommendations

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

mm in.				
mm <sup>2</sup>	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

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