Specification





# discrete IO module, Modicon TM5, 8 DI, 4O, 24V DC, 1 wire

TM5SDM12DT

Product availability: Stock - Normally stocked in distribution facility

Price\*: 250.00 USD

# Main

Range Of Product	Modicon TM5
Product Or Component Type	Discrete I/O module
Discrete Input Number	8
Discrete Input Voltage	24 V
Discrete Output Number	4
Discrete Output Type	Transistor

# Complementary

Range Compatibility	Modicon M258 Modicon LMC058 PacDrive LMC motion controller		
Product Compatibility	PacDrive LMC Pro 2 Motion controller PacDrive LMC Pro PacDrive LMC Eco Logic controller		
Discrete Input Voltage Type	DC		
Input Voltage Limits	20.428.8 V		
Discrete Input Logic	Sink		
Discrete Input Current	3.75 mA		
Input Impedance	6.4 kOhm		
Output Voltage	24 V DC		
Output Voltage Limits	20.428.8 V		
Discrete Output Logic	Source		
Current Per Channel	0.5 A		
Maximum Current Per Output Common	2 A		
Color	White		
Peak Output Current	12 A		
Switching Frequency	<= 500 Hz resistive		
Voltage State 0 Guaranteed	<= 5 V		
Voltage State 1 Guaranteed	>= 15 V		
Input Filtering	<= 25 ms configurable by software <= 100 ms hardware		

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Response Time	<= 300 μs from state 0 to state 1 output <= 300 μs from state 1 to state 0 output			
Maximum Leakage Current	5 μA when switched off			
Protection Type	Reverse polarity protection Short-circuit protection Overload protection			
Isolation	No insulation between channels 500 Vrms AC insulation between channel and bus			
Maximum Voltage Drop	<0.3 V at 500 mA output			
<b>Current Consumption</b>	42 mA 5 V DC bus 21 mA 24 V DC all inputs On			
Maximum Power Dissipation In W	1.52 W			
Local Signalling	1 LED green power supply 1 LED red power supply 4 LEDs yellow output status 8 LEDs green input status			
Electrical Connection	1 wire			
Marking	CE			
Net Weight	0.06 lb(US) (0.025 kg)			
Environment				
Standards	CSA C22.2 No 142 UL 508 CSA C22.2 No 213 IEC 61131-2			
Product Certifications	GOST-R cULus C-tick CSA			
Ambient Air Temperature For Operation	14131 °F (-1055 °C) without derating horizontal installation) 14140 °F (-1060 °C) with derating factor horizontal installation) 14122 °F (-1050 °C) vertical installation)			
Ambient Air Temperature For Storage	-40158 °F (-4070 °C)			
Relative Humidity	595 % without condensation			
Relative Humidity  Ip Degree Of Protection	595 % without condensation IP20IEC 61131-2			
<u> </u>				
Ip Degree Of Protection	IP20IEC 61131-2			
Ip Degree Of Protection  Pollution Degree	IP20IEC 61131-2 2 IEC 60664			
Ip Degree Of Protection  Pollution Degree  Operating Altitude	IP20IEC 61131-2 2 IEC 60664 06561.68 ft (02000 m)			
Ip Degree Of Protection  Pollution Degree  Operating Altitude  Storage Altitude	IP20IEC 61131-2  2 IEC 60664  06561.68 ft (02000 m)  0.009842.52 ft (03000 m)  1 gn 8.4150 Hz DIN rail			

# Ordering and shipping details

Category	US1PC1222532	
Discount Schedule	PC12	
Gtin	3595864074504	
Returnability	Yes	
Country Of Origin	AT	

# **Packing Units**

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Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	0.79 in (2.000 cm)	
Package 1 Width	2.36 in (6.000 cm)	
Package 1 Length	4.13 in (10.500 cm)	
Package 1 Weight	1.34 oz (38.000 g)	
Unit Type Of Package 2	S02	
Number Of Units In Package 2	97	
Package 2 Height	5.91 in (15.000 cm)	
Package 2 Width	11.81 in (30.000 cm)	
Package 2 Length	15.75 in (40.000 cm)	
Package 2 Weight	8.91 lb(US) (4.040 kg)	

# **Contractual warranty**

Warranty 18 months

# Sustainability Screen Premium\*

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

#### **Certifications & Standards**

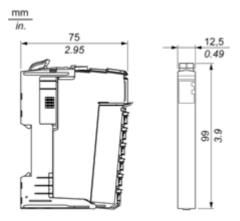
Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.		
Circularity Profile	End of Life Information		
California Proposition 65	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. For more information go to www.P65Warnings.ca.gov		

# TM5SDM12DT

# **Dimensions Drawings**

# TM5 Slice

#### **Dimensions**

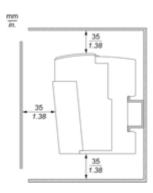


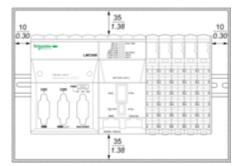
# TM5SDM12DT

Mounting and Clearance

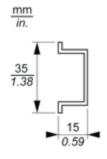
# TM5 System

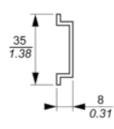
# **Spacing Requirements**

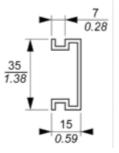




# Mounting on a DIN Rail







# TM5SDM12DT

Connections and Schema

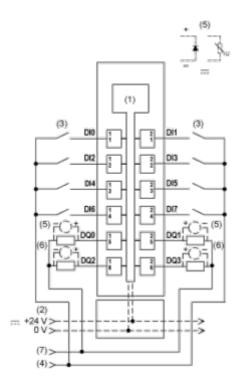
# TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

m /	nm 0.35		Ξ.		æ-
	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

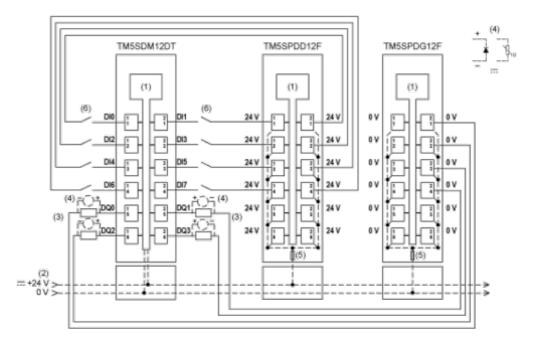
#### Electronic Module 8DI/4DO Tr 1 Wire

#### Wiring Diagram



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) 2-wire sensor
- (4) 24 Vdc I/O power segment by external connection
- (5) Inductive load protection
- (6) 2-wire load
- (7) 0 Vdc I/O power segment by external connection

To connect 2-wire devices, you can add TM5SPDD12F and TM5SPDG12F Common Distribution modules:



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) 2-wire load

# TM5SDM12DT

- (4) Inductive load protection(5) Integrated fuse type T slow-blow 6.3 A 250 V exchangeable
- (6) 2-wire sensor