# **Product datasheet**

Specification





# Power distribution module, Modicon TM5, for I/O 24 V DC & bus

TM5SPS2

### Main

Range Of Product	Modicon TM5	
Product Or Component Type	Power distribution module	
Product Specific Application	Supply 24 V DC I/O modules and bus TM5	

## Complementary

Range Compatibility	Modicon LMC058 Modicon M258		
Product Compatibility	Motion controller		
	Logic controller		
[Us] Rated Supply Voltage	24 V		
Network Type	DC		
Current Supplied	1136 mA for TM5 power bus -1055 °C		
	740 mA for TM5 power bus 5560 °C		
	10 A for I/O power segment		
Maximum Power Dissipation In W	1.91 W		
Colour	Grey		
Short-Circuit Protection	10 A external fuse		
Current Consumption	<= 25 mA 24 V DC		
Marking	CE		

### **Environment**

Standards	UL 508 CSA C22.2 No 213 CSA C22.2 No 142 IEC 61131-2		
Product Certifications	CSA C-Tick cULus GOST-R		
Ambient Air Temperature For Operation	-1055 °C without derating (horizontal installation) 5560 °C with derating factor (horizontal installation) -1050 °C (vertical installation)		
Ambient Air Temperature For Storage	-2570 °C		
Relative Humidity	595 % without condensation		
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 EN/IEC 61000-4-2 8 kV in air conforming to EN/IEC 61000-4-2			
Resistance To Electromagnetic Fields	1 V/m 22.7 GHz conforming to EN/IEC 61000-4-3 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			

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.000 cm
Package 1 Width	6.000 cm
Package 1 Length	10.500 cm
Package 1 Weight	50.000 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	5.286 kg

# **Contractual warranty**

Warranty 12 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>⊘</b>	Reach Free Of Svhc	
<b>⊘</b>	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information Ye	s
<b>②</b>	Pvc Free	

#### **Certifications & Standards**

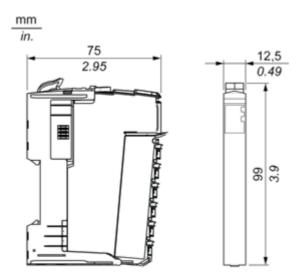
Reach Regulation	REACh Declaration			
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration			
China Rohs Regulation	China RoHS declaration			
Environmental Disclosure	Product Environmental Profile			
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins			
Circularity Profile	End of Life Information			

# TM5SPS2

**Dimensions Drawings** 

### TM5 Slice

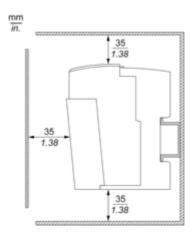
#### **Dimensions**

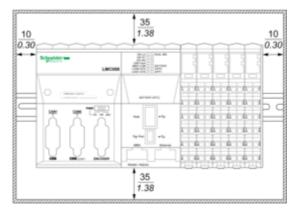


Mounting and Clearance

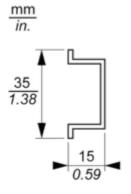
## TM5 System

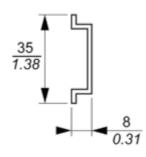
#### **Spacing Requirements**

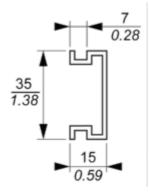




#### Mounting on a DIN Rail







## **Product datasheet**

## TM5SPS2

Connections and Schema

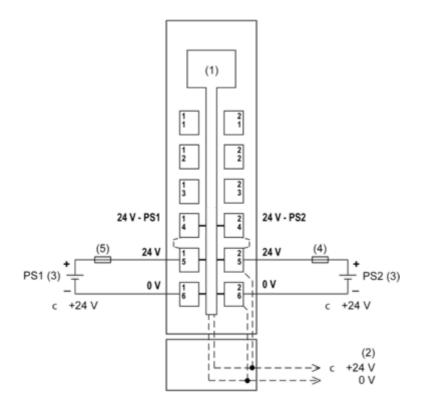
### TM5 System Wiring Recommendations

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

mm in.	0.35		Ω		<b>8D</b> -
	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

#### PDM Electronic Module 24 Vdc I/O and TM5 Power Bus

#### Wiring Diagram



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) PS1/PS2: External isolated SELV power supplies 24 Vdc limited to 200 VA for UL508 conformance, or limited to 150 VA for CSA 22.2,  $N^{\circ}$  142 conformance
- (4) External fuse type T slow-blow 10 A max. 250 V
- (5) External fuse type T slow-blow 1 A 250 V