



tM-SG4

The RS-485 Pull-high/Pull-low and Termination Resistors Module

RS-485 Signal Conditioning

Features

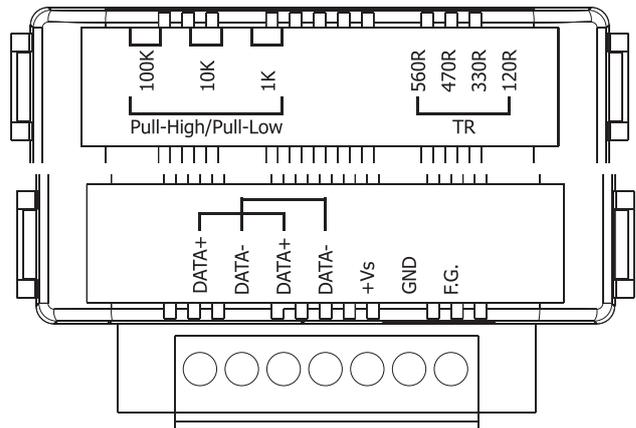
- Switch-selectable Pull-high/Pull-low Resistors
- 15-step Switch-selectable Termination Resistor
- LED Indicator for Power/Termination
- DIN-Rail mountable
- Cost-effective
- Wide Operating Temperature Range: -25 °C ~ +75 °C



Introduction

The tM-SG4 is an optional module that is used to improve the communication of RS-485 network. It provides switch selectable pull-high and pull-low resistors on RS-485 network. It also has 15-step switch selectable termination resistor such that the user can select a proper termination resistor to be connected to the RS-485 network easily.

Pin Assignments



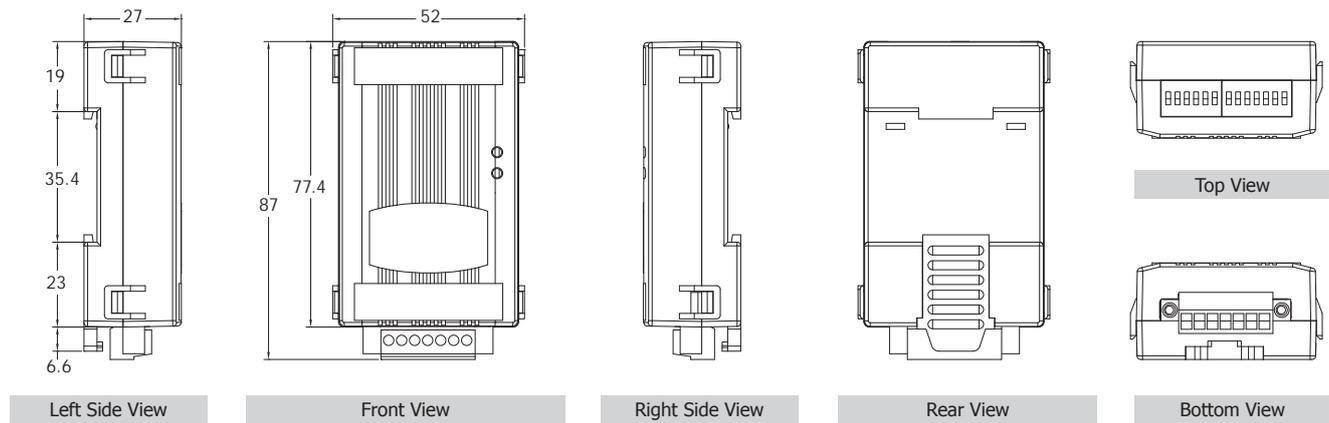
Applications

RS-485 signal pull-high/pull-low and long distance communication termination resistor setting.

System Specifications

RS-485 Interface	
Pull-high/Pull-low Resistance	1 kΩ, 10 kΩ, 100 kΩ, Switch-selectable
Termination Resistance	15 Steps, 65 ~ 560 Ω
LED Indicators	
Power	1 Red LED as Power Indicator
Termination Resistor	1 Green LED as Termination Indicator
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal
Power Requirements	
Reverse Polarity Protection	Yes
Powered from Terminal Block	Yes, 10 ~ 30 V _{DC}
Consumption	0.5 W Max.
Mechanical	
Dimensions (W x L x H)	52 mm x 87 mm x 27 mm
Installation	DIN-Rail Mounting
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +85 °C
Humidity	10 ~ 90% RH, Non-condensing

Dimensions (Units: mm)



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tM RS-485 Remote I/O Modules

Ordering Information

tM-SG4 CR	RS-485 Pull-high/Pull-low and Termination Resistor Module (RoHS)
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Related Products

	tM-7561 CR	Isolated USB to RS-485 Converter (RoHS)
	tM-7520U CR	Isolated RS-232 to RS-485 Converter (RoHS)
	tM-7510U CR	Isolated RS-485 Repeater (RoHS)
	MDR-20-24 CR	24W Single Output Industrial DIN-Rail Power Supply (RoHS)

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tM Series

tM-SG4