





Digital Input

Features

- Sink- and Source-type Digital Inputs
- Photocouple Isolation
- All Channels Can Be Used As 16-bit Counters
- Dual Watchdog
- Cost-effective

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■ Wide Operating Temperature Range: -25 °C ~ +75 °C

RoHS

X

8-channel Isolated Digital Input Module

Introduction .

The tM-P8 offers 8 channels for digital input, each of which features photocouple isolation. In addition input can be either sink- or source-type using wire connections and all channels can be used as 16-bit counters. 4 kV ESD protection and 3750 $V_{\mbox{\tiny DC}}$ intra-module isolation are also provided.

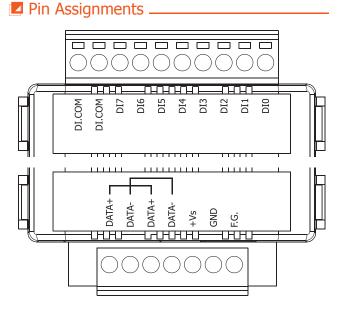
tM Series

Applications

- All Kinds of On/Off Control
- Food and Beverage Systems • Semiconductor Fabrication
- Industrial Automation Industrial Machinery
- Building Automation
- Control Systems

System Specifications

a:				
Communication				
Interface	RS-485			
Format	(N, 8, 1), (N, 8, 2), (O, 8, 1), (E, 8, 1)			
Baud Rate	1200 ~ 115200 bps			
Protocol	DCON, Modbus/RTU, Modbus/ASCII			
Dual Watchdog	Yes, Module (2.3 seconds), Communication (Programmable)			
LED Indicators				
Power	1 LED as Power Indicator			
Isolation				
Intra-module Isolation, Field-to-Logic	3750 Vdc			
EMS Protection				
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal			
	±8 kV Air for Random Point			
EFT (IEC 61000-4-4)	±4 kV for Power			
Power Requirements				
Reverse Polarity Protection	Yes			
Powered from Terminal Block	Yes, 10 ~ 30 Voc			
Consumption	0.5 W Max.			
Mechanical				
Dimensions (W x L x H)	52 mm x 98 mm x 27 mm			
Installation	DIN-Rail Mounting			
Environment				
Operating Temperature	-25 ~ +75 °C			
Storage Temperature	-30 ~ +75 °C			
Humidity	10 ~ 95% RH, Non-condensing			



🗾 I/O Specifications 🗕

Digital Input/Counter				
Input Channels		8		
Туре		Wet Contact (Sink, Source)		
On Voltage Level		$+3.5 V_{DC} \sim 50 V_{DC}$		
Off Voltage Level		+1 Vbc Max.		
Input Impedance		10 KΩ, 0.66 W		
Counters	Channels	8		
	Max. Count	65535 (16-bit)		
	Max. Input Frequency	100 Hz		
	Min. Pulse Width	5 ms		
Overvoltage Protection		70 Vdc		

Dimensions (Units: mm) _____ - 52 — -27 1 5555555555 10.2 19 1 0 Top View 35.4 98 77.4 Mariana Ma 23 0₀₀₀₀₀₀0 IfI ł 6.6 0000000 an Im-Left Side View Front View Right Side View Rear View Bottom View

Vire Connections

Digital Input/Counter	ON State Readback as 1	OFF State Readback as 0		
	+3.5 ~ +50 Vdc	OPEN or <1 Vpc		
Sink	→ DIx 10K + - III → To other DI.COM	DIx 10K		
	+3.5 ~ +50 V _{DC}	OPEN or <1 Vbc		
Source	DIX 10K -+ - III - To other DI.COM	DIx 10K - + II - + DI.COM		

Ordering Information		
tM-P8 CR	8-channel Isolation Digital Input Module (RoHS)	

Related Products _____

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

M the Series

2 Tiny RS-485 Remote I/O Modules

tM-P8