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Features I-7052(D)/M-7052(D) Differential Digital Inputs Sink- or Source-type Input 4 kV ESD Protection 5000 Vrms Isolation Voltage I-7052(D) M-7052(D) I-7053(D)_FG/M-7053(D)_FG 8-channel Isolated Digital Input Module 16 Source-type Digital Inputs □ Long Effective Distance Dry Contact Input Non-isolated for all Channels All Channels Can Be Used As 16-bit Counters Dual Watchdog Wide Operating Temperature Range: -25 to +75°C I-7053(D)_FG M-7053(D) CE FC Ø RoHS 16-channel Non-isolated Digital Input Module

Introduction .

The I-7052 offers 6 fully independent channels and 2 common ground channels for digital input. The diffential inputs feature channel-to-channel Photocouple isolation. In addition, you can choose either sink- or source-type input via wire connections. All channels are able to be used as 16-bit counters. The I-7052D has 8 LED indicators for DI channel status monitoring. 4 kV ESD protection and 5000 Vrms intra-module isolation are standard. The M-7052 has the same

System Specifications

ModelI-7052M-7052I-7053_FGM-7053InterfaceR-7052DI-7053D_FGM-7053DInterfaceRS-485VVBias ResistorNo (Usuall-vertice by the KS-485 Master. Internatively, add atM-SG4 or SG-785.)VFormat(N, 8, 1) (N, 8, 2) (E, 8, 1) (O, 8, 1)VBaud Rate1200 to 1152/0000Modbus RTU, DCONModbus RTU, DCONProtocolDCONModbus RTU, DCONModbus RTU, DCONModbus RTU, DCONDual WatchdogYes, Module (I.6 Seconds).DCONModbus RTU, DCONJou ButchdogYes, I as Power/Communication-I/O LED Indicators/DisplayYesgment LED DisplayI/O LED IndicatorsS000 VmsIndicators/DisplayTostationS000 VmsIntra-module Isolation, Field-to-LogicS000 Vms-Stop (IEC 61000-4-2)4 KV Contact for each Terminal-Stop (IEC 61000-4-2)44 KV for Power Line-Surge (IEC 61000-4-3)410 ~ +30 Vertice-Surge (IEC 61000-4-3)410 ~ +30 Vertice0.7 WOnsumptionQ.2 W0.7 W0.7 WOnsumption123 mm x JS mm x JS mm-Input Range123 mm x JS mm x JS mm-Input Range123 mm x JS mm-Input Range123 mm x JS mm-Input Range123 mm x JS mm-Instalation	System Specifications						
I-7052D I-7052D I-7053D_FG M-7053D Communication Interface RS-485 Interface RS-485 Not (Usually supplied by the RS-485 Master. Alternatively, add at Mr-SG4 or SG-785.) Format (N, 8, 1) (N, 8, 2) (E, 8, 1) (O, 8, 1) Image SG-785.) Mod at Mr-SG4 or SG-785.) Format (N, 8, 1) (N, 8, 2) (E, 8, 1) (O, 8, 1) Modbus SG-785.) Modbus SG-785.) Format (N, 8, 1) (N, 8, 2) (E, 8, 1) (O, 8, 1) Modbus SG-785.) Modbus SG-785.) Baud Rate 1200 to 115200 bps DCON Modbus SG-00.8 (NOD N) Modbus SG-00.8 (NOD N) Protocol DCON Modbus SG-00.8 (NOD N) DCON Modbus SG-00.8 (NOD N) Modbus SG-00.8 (NOD N) LED Indicators/Display Yes, 1 as Power/Communication Indicator Prometion Indicators Indicators J/O LED Indicator Yes, 8 LED as Digital Input Indicators Yes, 16 LEDs as Digital Input Indicators Yes, 16 LEDs as Digital Input Indicators Intra-module Isolation, Field-to-Logic Source Source Source Source Storage (IEC 61000-4:2) 4 kV Contact for each Terminal - - - <th>Model</th> <th>1-7052</th> <th>M-7052</th> <th>I-7053_FG</th> <th>M-7053</th>	Model	1-7052	M-7052	I-7053_FG	M-7053		
InterfaceRS-485Bias ResistorNo (Usually supplied by the RS-485 Master. I kernatively, add at MS-GV SC-785.)Format(N, 8, 1) (N, 8, 2) (E, 8, 1) (O, 8, 1)Baud Rate1200 to 11500000000000000000000000000000000000		I-7052D	M-7052D	I-7053D_FG	M-7053D		
No (Usually supplied by the RS-485 Master. All relatively, add at M-SG4 or SG-785.)Bias ResistorNo (Usually supplied by the RS-485 Master. All relatively, add at M-SG4 or SG-785.)Format(N, 8, 1) (N, 8, 2) (E, 8, 1) (O, 8, 1)Baud Rate1200 to 1152000DrotocolDCONModbus RTU, DCONDCONModbus RTU, DCONDual WatchdogYes, Module (1.6 Seconds), Communication (Programmable)LED Indicators/DisplaySystem LED IndicatorYes, 1 as Power/Communication IndicatorsI/O LED IndicatorsYes, 1 as Digital Tinput IndicatorsYes, 16 LED subjital Input Indicators7-segment LED Display7-segment LED DisplayIntra-module Isolation, Field-to-Logic5000 VrmsaESD (IEC 61000-4-2)4 kV Contact for each Terminal-8 kV Air for Random PointSurge (IEC 61000-4-5)-PowerReverse Polarity Protectio10 22 W0.7 W0.2 W0.6 W0.9 W9 Module-10 a larging-10 a larging-11 a larging0.2 W12 b larging0.3 W <t< td=""><td colspan="6">Communication</td></t<>	Communication						
Bias Resistoradd a tM-SG4 or SG-785.)	Interface	RS-485					
Baud Rate1200 to 115200 psBaud Rate1200 to 115200 psModbus RTU, DCONModbus RTU, DCONModbus RTU, DCONProtocolDCONModbus RTU, DCONDCONModbus RTU, DCONDual WatchdogYes, Module (1.6 Seconds), communication (Programmable)LED Indicators/DisplaySystem LED IndicatorYes, 1 as Power/Communication IndicatorI/O LED IndicatorsYes, 1 as Digital Input IndicatorsYes, 16 LEDs as Digital Input Indicators7-segment LED DisplayTisolationIntra-module Isolation, Field-to-Logic5000 Vms-ESD (IEC 61000-4-2)5000 Vms-& KV Air for Random Point-EFT (IEC 61000-4-2)4 kV Contact for each Terminal-Baverse Polarity ProtectionYes-Power-Reverse Polarity ProtectionYesMechanical0.2 W0.2 W0.7 WInput Range+10 ~ +30 UMechanical0.2 W0.6 W0.9 WMechanicalDIN-Rail or WI X30 mm X35 mmDimensions (L x W x H)123 mm x 72 mm x 35 mmDimensions (L x W x H)123 mm x 72 mm x 35 mmDimensions (L x W x H)123 mm x 72 mm x 35 mmDimensions (L x W x H)123 mm x 72 mm x 35 mmDimensions (L x W x H)123 mm x 72 mm x 35 mmDimensions (L x W x H)123 mm x 72 mm x 35 mmDimensions (L x W x H)123 mm x 72 mm x 35 mmDimensions (L x W x	Bias Resistor						
ProtocolDCONModbus RTU, DCONDCONModbus RTU, DCONDual WatchdogYes, Modul= (1.6 Seconds), Communication (Prgrammable)Dual WatchdogYes, 1 as Power/Communication (Prgrammable)Indicators/DisplaySystem LED IndicatorYes, 1 as Power/Communication IndicatorI/O LED IndicatorsYes, 1 as Power/Communication IndicatorsTyse, 8 LED as Digital Input IndicatorsYes, 16 LEDs as Digital Input Indicators7-segment LED Display-7-segment LED Display-8 VA Vir Orturation-8 VA Vir Orturation-8 VA Vir Orturation-8 VA Vir Orturation-9 Nove-8 VA Vir Orturation-9 Nove-9 Nove- <td>Format</td> <td>(N, 8, 1) (N,</td> <td>8, 2) (E, 8, 1)</td> <td>(0, 8, 1)</td> <td></td>	Format	(N, 8, 1) (N,	8, 2) (E, 8, 1)	(0, 8, 1)			
ProtocolDCON RTU, DCONDCON RTU, DCONRTU, DCON RTU, DCONDual WatchdogYes, Module (1.6 Seconds), Communication (Vergrammable)LED Indicators/DisplaySystem LED IndicatorYes, 1 as Power/Communication IndicatorI/O LED IndicatorsYes, 1 as Surgeria input indicatorsYes, 8 LEDs as Digital Input IndicatorsYes, 16 LEDs as Uigital Input Indicators7-segment LED Display-7-segment LED Display-7-segment LED Display-7-segment LED Display-7-segment LED Display-7-segment LED Display-7-segment LED Display-6000 VmsS000 VmsFIN-reminal-6000 VmsSo00 VmsFESD (IEC 61000-4-2)So00 Vms8 kV Air for each Terminal-8 kV Air Kir Freminal-Surge (IEC 61000-4-5)-9 kV Air for each Terminal-Surge (IEC 61000-4-5)-9 consumption44 kV for PowerReverse Polarity Protection-9 consumption9 consumption9 consumption9 consumption9 consumption123 mm x - 9 consumption123 mm x - 9 consumption0.1 kW x H)9 consumption123 mm x - 9 consumption123 mm x - 9 consumption-9 consumption-9 consumption-9 consumption123 mm x - 9 consumption0.1 kW x H)9 consumptio	Baud Rate	1200 to 115200 bps					
LED Indicators/Display System LED Indicator Yes, 1 as Power/Communicator I/O LED Indicators - - - I/O LED Indicators Yes, 8 LEDs as Digital Input Indicators Yes, 16 LEDs as Digital Input 7-segment LED Display - - - 7-segment LED Display - - - Intra-module Isolation, Field-to-Logic 5000 Vms - - Intra-module Isolation, Field-to-Logic 5000 Vms - - EMS Protection - - - - ESD (IEC 61000-4-2) 4 kV Contact for each Terminal - - - 8 kV Air for Random Point - - - - Surge (IEC 61000-4-5) - - - - Surge (IEC 61000-4-5) - - - - Surge (IEC 61000-4-5) - - - - Reverse Polarity Protection Yes - - - Input Range +10 ~ +30 / - 0.7 W 0.7 W 0.7 W<	Protocol	DCON		DCON			
System LED IndicatorsYes, 1 as Puerton IndicatorIndicatorsImage IndicatorsImage Indicators <td>Dual Watchdog</td> <td>Yes, Module</td> <td>(1.6 Seconds),</td> <td>Communication (</td> <td>Programmable)</td>	Dual Watchdog	Yes, Module	(1.6 Seconds),	Communication (Programmable)		
I/O LED IndicatorsYes, 8 LEDs as Digital Input IndicatorsYes, 16 LEDs as Digital Input IndicatorsYes, 16 LEDs as Digital Input Indicators7-segment LED Display7-segment LED DisplayIntra-module Isolation, Field-to-Logic5000 Vms-Intra-module Isolation, Field-to-Logic5000 Vms-Intra-module Isolation, Field-to-Logic5000 Vms-EMS ProtectionItra-module Isolation, Ferminal-8 kV Contact for each Terminal-8 kV Air for leach Terminal-Suge (IEC 61000-4-9)4 kV Contact for each Terminal-Surge (IEC 61000-4-4)44 kV for Pure time-Surge (IEC 61000-4-5)-PowerReverse Polarity ProtectioYesInput Range-+10 ~ +3U0.2 W0.2 W0.7 W0.6 W0.9 WO.9 WInstallation0.2 W0.9 WInstallationDIN-Rail Culture UnduringInstallationOIN-Rail Culture UnduringInstallationOlspan="4">-25 to +75°CStorage Temperature-26 to +35°C	LED Indicators/Display						
Ites, of LEDs as Digital Input IndicatorsTes, for LEDs as Digital Inter-Indicators7-segment LED Display-Isolation5000 Vms-Intra-module Isolation, Field-to-Logic 5000 Vms-EMS ProtectionEMS Protection 4 kV Contact for each Terminal-ESD (IEC 61000-4-2) 4 kV Contact for each Terminal-EFT (IEC 61000-4-2) 4 kV for Pwer Line-EFT (IEC 61000-4-3) $-$ -Surge (IEC 61000-4-5)Surge (IEC 61000-4-5) $-$ -PowerReverse Polarity ProtectionYes-Input Range $+10 \sim +30$ 0.7 W 0.7 WOnsumption 0.2 W 0.2 W 0.7 W 0.9 WMechanical 0.6 W 0.9 W 0.9 WDimensions (L x W x H) 123 mm x $-$ x 35 mm x 35 mm x $-$	System LED Indicator	Yes, 1 as Po	wer/Communic	ation Indicator			
Ites, of LEDs as Digital Input IndicatorsTes, for LEDs as Digital Inter-Indicators7-segment LED Display-Isolation5000 Vms-Intra-module Isolation, Field-to-Logic 5000 Vms-EMS ProtectionEMS Protection 4 kV Contact for each Terminal-ESD (IEC 61000-4-2) 4 kV Contact for each Terminal-EFT (IEC 61000-4-2) 4 kV for Pwer Line-EFT (IEC 61000-4-3) $-$ -Surge (IEC 61000-4-5)Surge (IEC 61000-4-5) $-$ -PowerReverse Polarity ProtectionYes-Input Range $+10 \sim +30$ 0.7 W 0.7 WOnsumption 0.2 W 0.2 W 0.7 W 0.9 WMechanical 0.6 W 0.9 W 0.9 WDimensions (L x W x H) 123 mm x $-$ x 35 mm x 35 mm x $-$		-	-	-	-		
Isolation Field-to-LogicS000 Vrms-Intra-module Isolation, Field-to-Logic 5000 Vrms-EMS ProtectionEMS Protection 4 kV Contact for each Terminal- 8 kV Air for Random PointEFT (IEC 61000-4-2) 4 kV for Power-Surge (IEC 61000-4-5)Surge (IEC 61000-4-5)PowerReverse Polarity ProtectionYesInput Range $+10 \sim +30$ 0.7 W 0.2 W 0.2 W 0.7 W 0.7 W 0.6 W 0.6 W 0.9 W 0.9 WMechanical 0.2 W 0.7 W 0.9 WDimensions (L x W x H) 123 mm x 7 mm x 35 mm-Installation $DIN-Rail or UMOUTING-EnvironmentOperating Temperature-25 to +75^{\circ}C-Storage Temperature-40 to +85^{\circ}C-$	I/O LED Indicators						
Intra-module Isolation, Field-to-LogicS000 Vrms-EMS ProtectionEMS ProtectionESD (IEC 61000-4-2) $\frac{4 \text{ kV Contact for each Terminal}}{8 \text{ kV Air for - Rendom Point}} 0$	7-segment LED Display	-					
Field-to-Logic5000 Vrms-EMS Protection-EMS Protection-ESD (IEC 61000-4-2) 4 kV Contact for each Terminal- 8 kV Air for $-$ and m Point-EFT (IEC 61000-4-4) 4 kV for $-$ true- 4 kV for $-$ trueSurge (IEC 61000-4-5) $-$ - Power Reverse Polarity ProtectionYes-Input Range $+10 \sim +30$ 0.7 W 0.7 WInput Range 0.2 W 0.2 W 0.7 W 0.7 WConsumption 0.2 W 0.2 W 0.7 W 0.7 WMechanical 0.2 W 0.6 W 0.9 W 0.9 WInstallation 123 mm \times $T \times 35$ mm \times $S \times T$ $T \times S \times T$ Environment -55 to $+75^{\circ}$ C -55 to $+55^{\circ}$ C -55 to $-$	Isolation						
$\begin{tabular}{ c $		5000 Vrms -					
Terminal I 8 kV Air for k and on Point - 8 kV Air for k and on Point - EFT (IEC 61000-4-4) ± 4 kV for \triangleright restriction - Surge (IEC 61000-4-5) ± 4 kV for \triangleright restriction - Power - - Reverse Polarity Protection Yes - Input Range +10 ~ +30 \lor U 0.7 W 0.7 W Onsumption 0.2 W 0.7 W 0.7 W Onsumption 0.2 W 0.7 W 0.9 W Mechanical 01N-Rail \lor U U 0.9 W Dimensions (L x W x H) 123 mm x \top U Mounting U U Furionment 01N-Rail \lor U U U U Operating Temperature -25 to +75 \lor U U U U Storage Temperature -40 to +85 \lor U U U U	EMS Protection						
EFT (IEC 61000-4-4) ± 4 kV for \vdash ine $-$ Surge (IEC 61000-4-5) $-$ Power $-$ Power $-$ Reverse Polarity Protection Yes Input Range $+10 \sim +3 \cup = 0.2$ W 0.7 W 0.0 W 0.6 W 0.9 W 0.6 W 0.6 W 0.9 W 0.6 W 0.6 W 0.9 W Mechanical 123 mm x JS mm x JS mm S Installation $DIN-Rail \cup = U$ $V = V = V$ Environment -25 to $+75^{\circ}$ $V = V$ Operating Temperature -40 to $+85^{\circ}$ $V = V$	ESD (IEC 61000-4-2)		t for each	-			
Surge (IEC 61000-4-5) - Power - Reverse Polarity Protection Yes Input Range $+10 \sim +30 \lor$ $0.2 \ W$ $0.2 \ W$ $0.7 \ W$ $0.6 \ W$ $0.6 \ W$ $0.9 \ W$ $0.6 \ W$ $0.6 \ W$ $0.9 \ W$ Mechanical J23 mm x 72 mm x 35 mm Storage Temperature J25 to $+75^\circ$ Environment		8 kV Air for Random Point		-			
Power Reverse Polarity Protection Yes Input Range $+10 \sim +30 \lor$ $0.2 \lor$ $0.7 \lor$ $0.6 \lor$ $0.7 \lor$ $0.6 \lor$ $0.9 \lor$ Mechanical $0IN$ -Rail or \lor Dimensions (L x $W x H$) $123 mm x 72 mm x 35 mm$ Installation DIN-Rail or \lor Diperating Temperature $-25 \text{ to } +75^{\circ}C$ Storage Temperature $-40 \text{ to } +85^{\circ}C$	EFT (IEC 61000-4-4)	±4 kV for Power Line -					
Reverse Polarity Protection Yes Input Range $+10 \sim +30 \lor$ $0.7 \lor$ $0.7 \lor$ Consumption $0.2 \lor$ $0.7 \lor$ $0.7 \lor$ $0.6 \lor$ $0.6 \lor$ $0.9 \lor$ $0.9 \lor$ Mechanical $123 mm \times 35 mm \times 35 mm \times 5 mm$ Mechanical Dimensions (L x W x H) $123 mm \times 35 mm \times 35 mm \times 5 mm \times 5 mm$ Mechanical Environment $01N$ -Rail or $1M$ Wonthing $125 \times 5 \times$	Surge (IEC 61000-4-5)	-					
Input Range +10 ~+30 UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	Power						
0.2 W 0.2 W 0.7 W 0.7 W 0.6 W 0.6 W 0.9 W 0.9 W Mechanical Installation DIN-Rail or Wall Mounting Image: Wall Mounting Environment -25 to +75°C -25 to +75°C Image: Wall Mounting Image: Wall Mounting Storage Temperature -40 to +85°C Image: Wall Mounting Image: Wall Mounting <td>Reverse Polarity Protection</td> <td>Yes</td> <td></td> <td></td> <td></td>	Reverse Polarity Protection	Yes					
Consumption I <t< td=""><td>Input Range</td><td colspan="3">+10 ~ +30 VDC</td></t<>	Input Range	+10 ~ +30 VDC					
0.6 W 0.6 W 0.9 W 0.9 W Mechanical Image: Stand	с <i>и</i>	0.2 W	0.2 W	0.7 W	0.7 W		
Dimensions (L x W x H) 123 mm x 72 mm x 35 mm Installation DIN-Rail or Wall Mounting Environment -25 to +75°C Operating Temperature -40 to +85°C	Consumption	0.6 W	0.6 W	0.9 W	0.9 W		
Installation DIN-Rail or Wall Mounting Environment -25 to +75°C Operating Temperature -40 to +85°C	Mechanical						
Environment Operating Temperature -25 to +75°C Storage Temperature -40 to +85°C	Dimensions (L x W x H)	123 mm x 72 mm x 35 mm					
Operating Temperature -25 to +75°C Storage Temperature -40 to +85°C	Installation	DIN-Rail or Wall Mounting					
Storage Temperature -40 to +85°C	Environment						
	Operating Temperature	-25 to +75°C					
Humidity 10 to 95% RH, Non-condensing	Storage Temperature	-40 to +85°C					
	Humidity	10 to 95% RH, Non-condensing					

hardware specifications as the I-7052, but provides additional support for the Modbus RTU protocol as well as the DCON protocol.

The I-7053_FG features a long effective distance measurement for dry contact digital input of up to 500 meters. The I-7053_FG supports source-type input. All 16 channels are also able to be used as 16-bit counters, each of which are non-isolated. The I-7053D_FG has 16 LED indicators for channel status monitoring. The M-7053 has the same hardware specifications as the I-7053_FG, but provides additional support for the Modbus RTU protocol as well as the DCON protocol.

Applications .

Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote Diagnosis, Testing Equipment.

I/O Specifications _____

Model		I-7052	M-7052	I-7053_FG	M-7053	
		I-7052D	M-7052D	I-7053D_FG	M-7053D	
Digital Ir	nput/Counter					
Channels	Channels		8		16	
Туре	Dry Contact	-		Source		
	Wet Contact	Sink/Source		-		
Wet	ON Voltage Level	+4 ~ 30 Vc	C	-		
Contact	OFF Voltage Level	+1 VDC Max.		-		
Dry Contact	ON Voltage Level	-		Open		
	OFF Voltage Level	-		Close to GND		
	Effective Distance for Dry Contact	-		500 m Max.		
	Max. Count	65535 (16-	bit)			
Counters	Max. Input Frequency	100 Hz				
	Min. Pulse Width	5 ms				
Input Impedance		3 kΩ		-		
Channel-to-Channel Isolation		Yes, ±2 kV for differential only.		-		
Overvoltage Protection		±35 VDC		-		



DATA+

DATA-

+Vs

GND

DATA+

DATA-

+Vs

GND

Digital Input/

Counter

Channel 0 to 5

Wet Contact

(Sink)

Channel 0 to 5

Wet Contact

(Source)

Channel 6 to 7

Wet Contact

(Sink)

Digital Input/

Counter

Dry Contact

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Internal I/O Structure -

+5 V 🖲

+5 V 🖲

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I-7052(D)/M-7052(D)

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(B)GND

To other channels

To other channels

I-7052(D)/M-7052(D)

LED

Module

EEPROM

Embedded

Controller

RS-485

Interface

Power

Regulator

LED

Module

EEPRON

Embedded Controller

RS-485

Interface

Power Regulator

Wire Connections.

+5 V

• +5 V

ON State Readback as 1

+4 ~ +30 VDC

+4 ~ +30 VDC

+4 ~ +30 VDC

INx+ 10K

INx+ <u>10</u>K

-0-

0

INx-

-0 ~~

INx+ 10K

0

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INx-

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I-7053(D)_FG/M-7053(D)

Remote I/O Modules

Pin Assignments

IN0+

IN0-

IN6+

IN7+

DIO

114

I15

OFF State

Readback as 0

Open or +1 VDC Max.

Open or +1 VDC Max.

Open or +1 VDC Max.

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To other channels

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To other channels

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(B)GND

INx+ 10K

-0

-0

INx-

-0

-0

INx-

-0

INx+ 10K

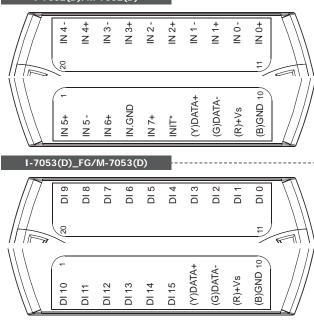
INx+ 10K

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IN.GND

I-7052(D)/M-7052(D)



Ordering Information

I-7052 CR	8-channel Isolated Digital Input Module using the DCON Protocols (Blue Cover) (RoHS)	
I-7052D CR	I-7052 with LED Display (Blue Cover) (RoHS)	
I-7052D-G CR	I-7052 with LED Display (Gray Cover) (RoHS)	
M-7052-G CR	8-channel Isolated Digital Input Module using the DCON and Modbus Protocols (Gray Cover) (RoHS)	
M-7052D-G CR	M-7052 with LED Display (Gray Cover) (RoHS)	
I-7053_FG CR	16-channel Non-isolated Digital Input Module using the DCON Protocols (Blue Cover) (RoHS)	
I-7053_FG-G CR	16-channel Non-isolated Digital Input Module using the DCON Protocols (Gray Cover) (RoHS)	
I-7053D_FG CR	I-7053_FG with LED Display (Blue Cover) (RoHS)	
I-7053D_FG-G CR	I-7053_FG with LED Display (Gray Cover) (RoHS)	
M-7053-G CR	16-channel Non-isolated Digital Input Module using the DCON and Modbus Protocols (Gray Cover) (RoHS)	
M-7053D-G CR	M-7053 with LED Display (Gray Cover) (RoHS)	

Accessories

	tM-7520U CR	RS-232 to RS-485 Converter (RoHS)
	tM-7561 CR	USB to RS-485 Converter (RoHS)
4	tM-SG4 CR	RS-485 Bias and Termination Resistor Module (RoHS)
	I-7514U CR	4-channel RS-485 Hub (RoHS)
2	SG-770 CR	7-channel Differential or 14-channel Single-ended Surge Protector (RoHS)
	SG-3000 Series	Signal Conditioning Modules for Thermocouple, RTD, DC Voltage, DC Current and Power Input Transformers

I-7052/I-7052D/I-7053_FG/I-7053D_FG/M-7052/M-7052D/M-7053/M-7053D

To other channels To other channels Ψ⊢ 0 -0 IN.GND IN.GND I-7053(D)_FG/M-7053(D) **ON State OFF State** Readback as 1 Readback as 0 OPEN or <4 VDC +3.5 ~ +30 VDC DIx DIx