



Introduction

The 400-16IDC module provides 16 +24Vdc (nominal) bipolar input channels for use within the FMT-400 modular system. A maximum of 128 digital intput channels (eight 400-16IDC modules) in main rack are supported by the CPU-400A, 256 digital output channels (sixteen 400-16IDC modules) in main or extension racks are supported by the CPU-400B and 1024 digital output channels (sixty four 400-16IDC modules) in main or extension racks are supported by the CPU-400B and 1024 digital output channels (sixty four 400-16IDC modules) in main or extension racks are supported by the CPU-400C.

(Please see separate data sheet for more information on the CPU modules).

General Specifications

Storage temperature	-20 to +70 °C
Operating temperature	0 to 55 °C
Humidity	0-90%
Weight	490g
Dimensions	Standard FMT-400 size single width module
Spring terminal wire gauge	0.2 to 1.5mm csa (24 to 14 AWG)
Current consumed from rack	110mA from rack power supply
Digital Input Type	16 opto-isolated bipolar digital inputs, split into two blocks of eight inputs each block of eight with single common
Digital Input Current Rating	Approximately 8mA @24Vdc
Digital Input Voltage Rating Noise Filtering	24Vdc where <5V = OFF and >18V = ON Input Filter time constant 1mS



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Connection Details

Connections should be made to the 400-16IDC connector as shown in the following diagram. The inputs are split into two blocks of eight, each block having it's own common connection.

To insert wires into connector apply downwards pressure on orange tab using a small screwdriver or similar, insert wire then release pressure, the wire will be gripped firmly.

16-*I* 0 1 2 3 4 5 5 6 7 10 🗖 13 6 × 24VDC 14 🗆 15 🗆 a 🗖 Connections to the input connector should be made as in the following diagram. It can be seen that MT400 inputs 0 to 7 are being used with a common 0V. Inputs 8 to 15 are being used with a common +24V. 0 1 1 2 2 3 3 4 4 5 5 24VDC 6 6 7 0-7 Com 7 0-7 Com 8 8 9 9 C 10 10 11 11 12 12 13 13 24VDC 14 14 15 15 8-15 8-15 \bigcirc



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Input Ratings

<u>Outputs</u>	Nominal Rating	Notes
10 - 115	Digital Input Current Rating Digital Input Voltage Rating	Approximately 8mA @24Vdc 24Vdc where <5V = OFF and >18V = ON

LED Descriptions

Label 0 to 15	<u>Colour</u> Green	Description Indicates status of the digital input. When illuminated the input has been energised by an external signal.
Enabled	Yellow	When illuminated shows that the module has been correctly set up within your project in Flex32 and that the CPU module has initialised the module. If not illuminated then the module may not have been set up in your project configuration.
Active	Yellow	Indicates activity within the module, this will normally flicker or appear to be constantly illuminated, activity occurs when the CPU module is writing data to the 400-16IDC.



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Order Codes

Part Number 400-16IDC

COLTER SYSTEMS LIMITED

FLITCH INDUSTRIAL ESTATE CHELMSFORD ROAD DUNMOW ESSEX CM6 1XJ

Telephone: + 44 (0) 1371 876887 Fax: + 44 (0) 1371 875638

E-Mail: sales@coltergroup.co.uk Web Site: www.coltergroup.co.uk

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Colter Systems reserve the right to amend these specifications and the user is asked to check the validity of the data sheet prior to use