Product data sheet

Specifications

Modicon ETB - Block 16 I/O Modbus TCP/IP

ETB1EM16CP00

Main

Range Of Product	Modicon ETB
Product Or Component Type	I/O distributed module
Number Of Input Channels	1…16 configurable
Number Of Output Channels	1…16 configurable)
Module Type	Modbus TCP/IP

Complementary

Input Type	Contact
Input Logic	Positive Negative
Maximum Delay Response	2.5 ms
Output Current	2 A per module 8 A per output
Output Protection Type	Against short-circuits
Switching Frequency	200 Hz
Short-Circuit Current	6.5 A
[Us] Rated Supply Voltage	24 V DC
Connector Type	M12
Standards	IEC 60068-2-8 IEC 60529

Environment

Ip Degree Of Protection	IP67
Ambient Air Temperature For Operation	-13…158 °F (-25…70 °C)
Ambient Air Temperature For Storage	-40…185 °F (-40…85 °C)
Vibration Resistance	10 gn

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.61 in (4.100 cm)
Package 1 Width	2.44 in (6.200 cm)
Package 1 Length	8.86 in (22.500 cm)

Package 1 Weight	20.11 oz (570.0 g)
Unit Type Of Package 2	S03
Number Of Units In Package 2	30
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	38.58 lb(US) (17.500 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.
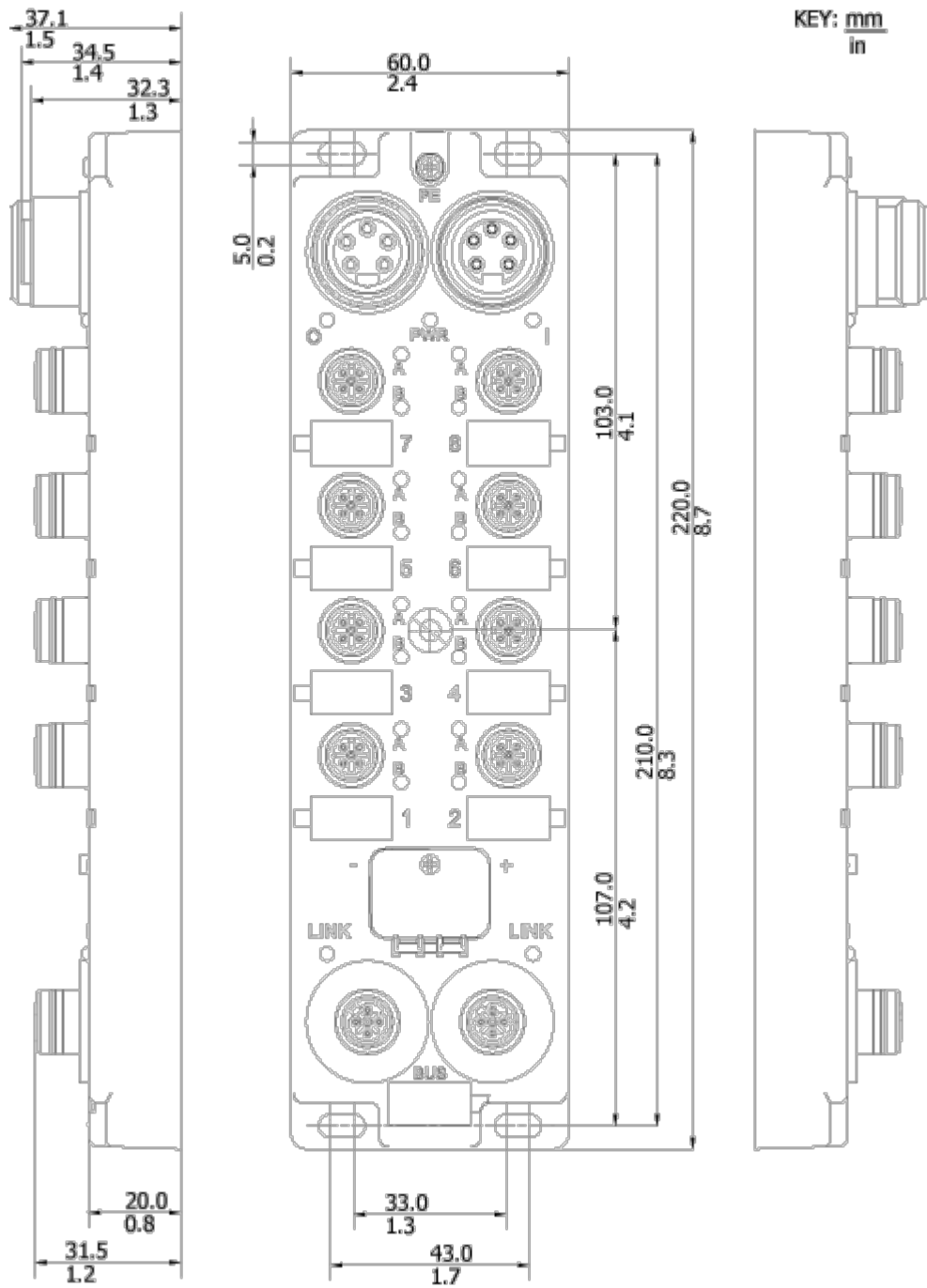
Learn more about Green Premium >

Guide to assess a product's sustainability >

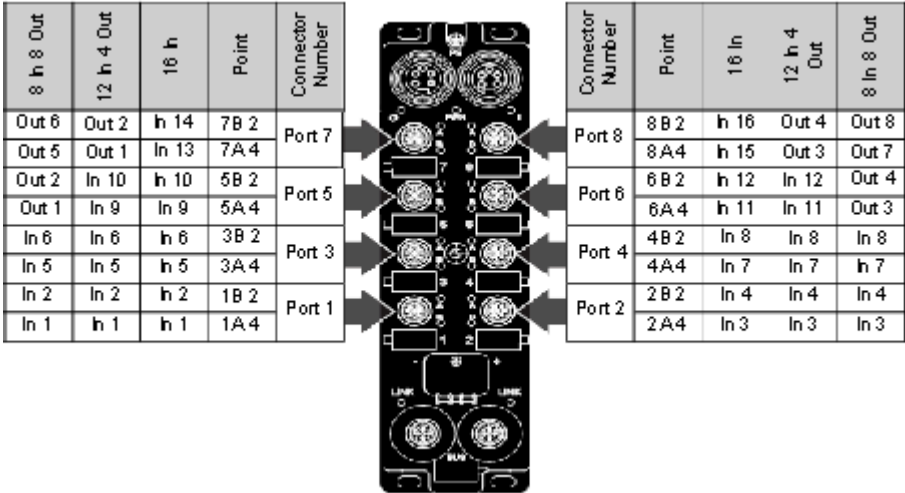|	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions

KEY: mm
in
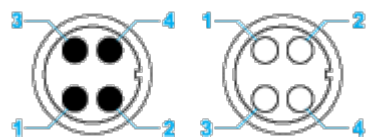
Product data sheet   ETB1EM16CP00

Connections and Schema

I/O Assignments

Select the number of inputs/outputs according to the product characteristics in order to get the I/O assignment.

8 In 8 Out	12 In 4 Out	16 In	Point	Connector Number
Out 6	Out 2	In 14	7B 2	Port 7
Out 5	Out 1	In 13	7A 4	
Out 2	In 10	In 10	5B 2	Port 5
Out 1	In 9	In 9	5A 4	
In 6	In 6	In 6	3B 2	Port 3
In 5	In 5	In 5	3A 4	
In 2	In 2	In 2	1B 2	Port 1
In 1	In 1	In 1	1A 4	

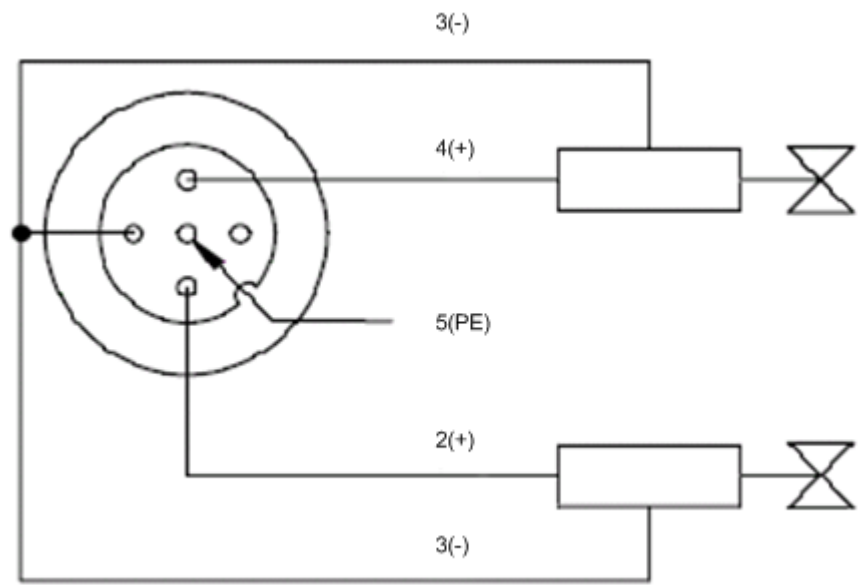| Connector Number	Point	16 In	12 In 4 Out	8 In 8 Out
Port 8	8B 2	In 16	Out 4	Out 8
	8A 4	In 15	Out 3	Out 7
Port 6	6B 2	In 12	In 12	Out 4
	6A 4	In 11	In 11	Out 3
Port 4	4B 2	In 8	In 8	In 8
	4A 4	In 7	In 7	In 7
Port 2	2B 2	In 4	In 4	In 4
	2A 4	In 3	In 3	In 3

Power Connectors

1   output power (24V)

2   module/input power (24V)

3   module/input power (0V)

4   output power (0V)

2-Output Port

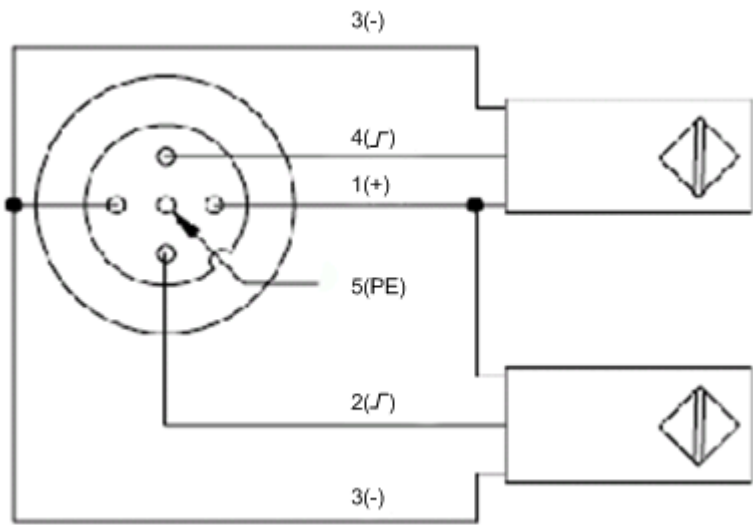**IEC Wiring Diagram with 2 Actuators**

2-Input Port

IEC Wiring Diagram with 2 Sensors

3(-)

4(⌐)

1(+)

5(PE)

2(⌐)

3(-)

Input/Output Port

IEC Wiring Diagram with 1 Sensor and 1 Actuator