

# Product data sheet

Specifications



## counter module, Modicon M340, high speed, 8 channels

BMXEHC0800

**Product availability: Stock - Normally stocked in distribution facility**

### Main

Range of Product	Modicon M340 automation platform
Product or Component Type	Counter module
Number of channels	8
Maximum counting frequency	10000 Hz
Number of inputs	2 single mode) 3 special dual phase mode)
Input compatibility	19.2...30 V 2-wire/3-wire proximity sensor incremental encoder with push-pull outputs, 10...30 V totem pole
Input voltage	24 V DC type 3

### Complementary

Counter functions	Up/down counter 32-bit counter counting Frequency meter Loop (modulo) counting Count events Down counting
Cycle time	5 ms
Isolation voltage	1500 V 60 s
Input type	High speed
Input voltage limits	24 V DC
Input current	4.5 mA
Voltage state 1 guaranteed	11...30 V DC
Current state 1 guaranteed	> 2 mA (for U >= 11V)
Voltage state 0 guaranteed	< 5 V DC
Current state 0 guaranteed	< 1.5 mA
Electrical connection	1 connector 20 pins
Current consumption	200 mA 3.3 V DC bus 80 mA 24 V DC sensor
Module format	Standard
Product Weight	0.249 lb(US) (0.113 kg)

### Environment

Ambient Air Temperature for Operation	32...140 °F (0...60 °C)
Relative Humidity	10...95 % without condensation
IP Degree of Protection	IP20

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Directives</b>	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
<b>Protective treatment</b>	Standard version

## Ordering and shipping details

<b>Category</b>	US1PC3418160
<b>Discount Schedule</b>	PC34
<b>GTIN</b>	3595863910131
<b>Returnability</b>	Yes
<b>Country of origin</b>	US

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	2.05 in (5.2 cm)
<b>Package 1 Width</b>	4.3 in (11.0 cm)
<b>Package 1 Length</b>	4.6 in (11.8 cm)
<b>Package weight(Lbs)</b>	5.04 oz (143.0 g)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	15
<b>Package 2 Height</b>	5.9 in (15.0 cm)
<b>Package 2 Width</b>	11.8 in (30.0 cm)
<b>Package 2 Length</b>	15.7 in (40.0 cm)
<b>Package 2 Weight</b>	5.27 lb(US) (2.39 kg)

## Contractual warranty

<b>Warranty (in months)</b>	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

Total lifecycle Carbon footprint	102 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	18 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	83 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	<a href="#">Compliant By Exemption</a>
REACH Regulation	<a href="#">Reference contains Substances of Very High Concern above the threshold</a>
California proposition 65	<b>WARNING:</b> This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## Use Longer



### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Recyclability potential, in %	3
Circularity Profile	<a href="#">End of Life Information</a>
Take-back	No

Dimensions Drawings

Modules Mounted on Racks

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Dimensions



(1) With removable terminal block (cage, screw or spring).

(2) With FCN connector.

(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

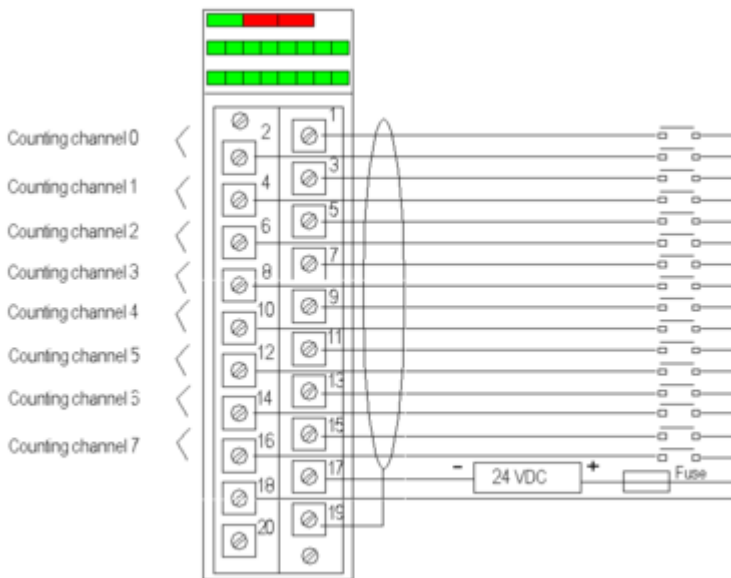
Connections and Schema

Counting Module Wiring

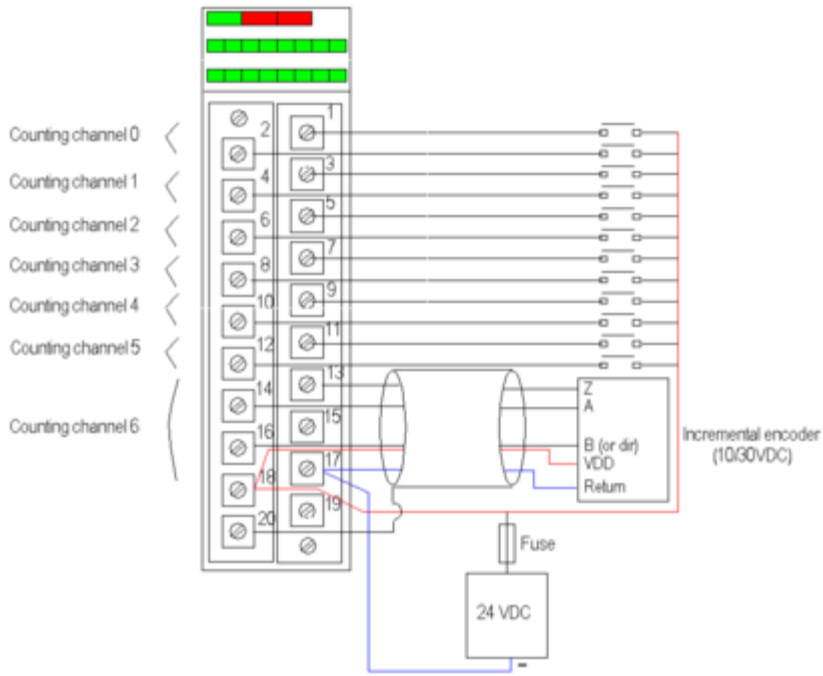
Pin Assignments

IN_A input for channel 0	2	1	IN_AUX input for channel 0
IN_A input for channel 1 or IN_B input for channel 0	4	3	IN_AUX input for channel 1
IN_A input for channel 2	6	5	IN_AUX input for channel 2
IN_A input for channel 3 or IN_B input for channel 2	8	7	IN_AUX input for channel 3
IN_A input for channel 4	10	9	IN_AUX input for channel 4
IN_A input for channel 5 or IN_B input for channel 4	12	11	IN_AUX input for channel 5
IN_A input for channel 6	14	13	IN_AUX input for channel 6
IN_A input for channel 7 or IN_B input for channel 6	16	15	IN_AUX input for channel 7
VDC + power supply for sensors	18	17	Return + 24 V power supply for sensors
Functional earth, for shield continuation	20	19	Functional earth, for shield continuation

Sensor Connection Example



Incremental Encoder Connection Example for Axis Control



Channels 0 to 5 are still used in single mode.  
 Channel 7 is no longer available.

**Recommended Circuit for a Highly Disturbed Environment Using BMXXSP\*\*\*\*  
 Electromagnetic Protection Kit**

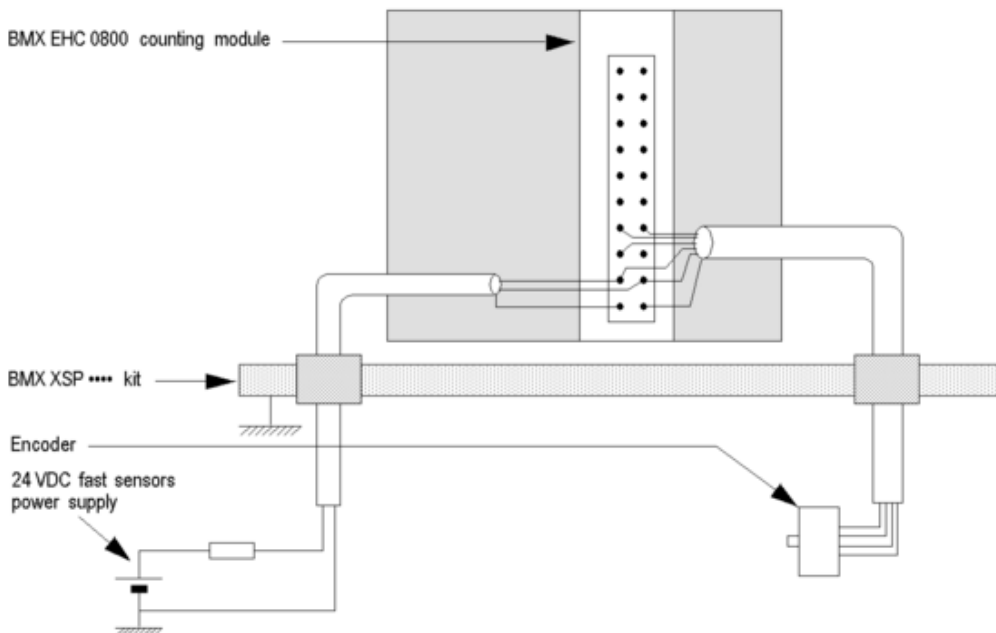


Image of product / Alternate images

Alternative

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