Product datasheet
Characteristics

BMXEHC0800
high speed counter module M340 - 8 channels

Main

Range of product	Modicon M340 automation platform
Product or component type	Counter module
Number of channels	8
Counting frequency	<= 10000 Hz
Number of inputs	2 single mode 3 special dual phase mode
Input compatibility	Incremental encoder with push-pull outputs 10...30 V totem pole 2-wire/3-wire proximity sensor 19.2...30 V
Input voltage	24 V DC type 3

Complementary

Counter functions	32-bit counter counting Count events Down counting Frequency meter Loop (modulo) counting Up/down counter
Cycle time	5 ms
Isolation voltage	1500 V for 60 s
Input type	High speed
Input voltage limits	30 V
Input current	> 2 mA at 11 V
Voltage state 1 guaranteed	11...30 V
Current state 1 guaranteed	>= 6 mA
Voltage state 0 guaranteed	< 5 V
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	0.113 kg

Environment

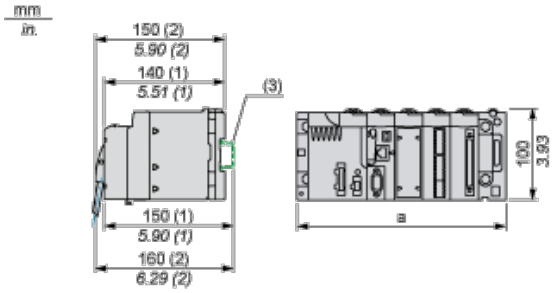
ambient air temperature for operation	0...60 °C
relative humidity	10...95 % without condensation
IP degree of protection	IP20
protective treatment	TC

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0722 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Modules Mounted on Racks

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.

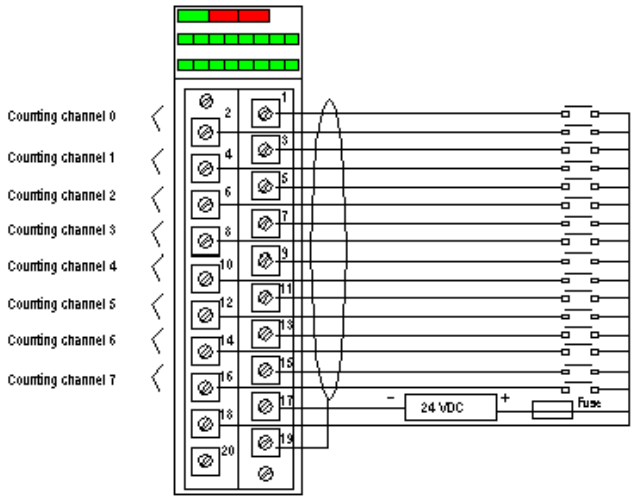
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Counting Module Wiring

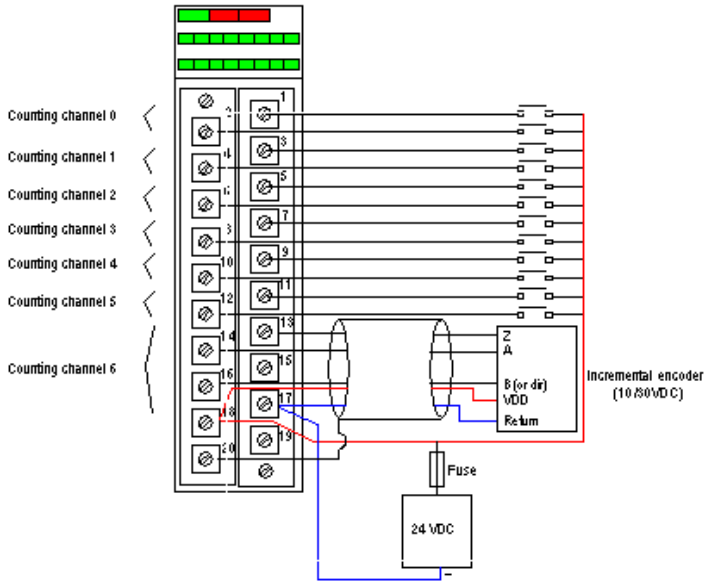
Pin Assignments

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