



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	3 special dual phase mode 2 single 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	80 mA 24 V DC sensor 200 mA 3.3 V DC bus
Module format	Standard
Product weight	0.113 kg

Environment

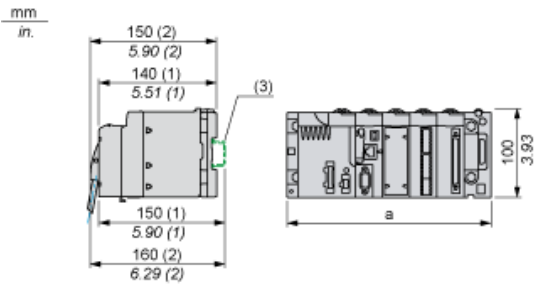
Ambient air temperature for operation	0...60 °C
Relative humidity	10...95 % without condensation
IP degree of protection	IP20
Protective treatment	TC

Offer Sustainability

Sustainable offer status	Not 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 Download Product Environmental

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.

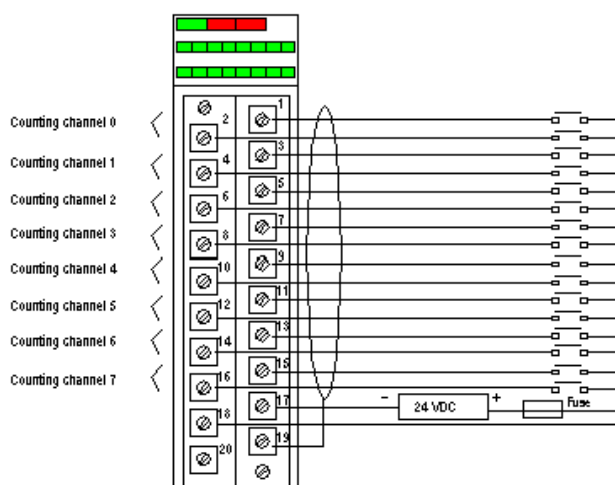
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Counting Module Wiring

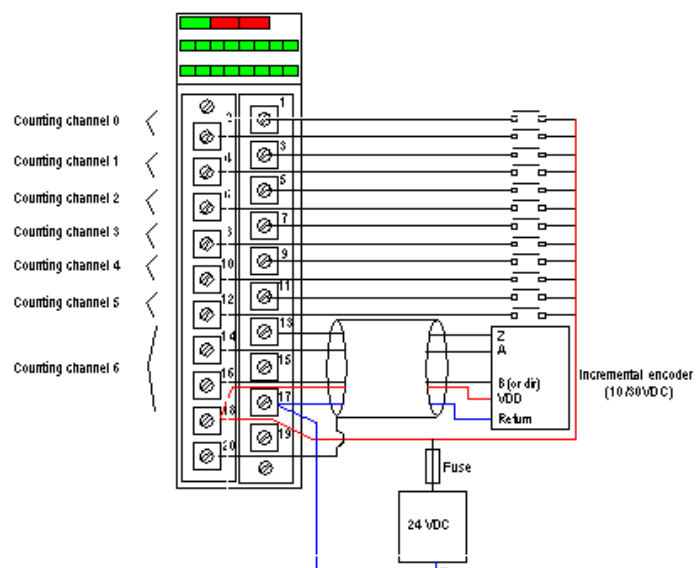
Pin Assignments

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

