



Main

Range of product	Modicon M340 automation platform
Product or component type	Discrete I/O module
Product specific application	For severe environments
Electrical connection	20-way connector
Discrete input number	8
Input type	Current sink (logic positive)
Discrete input voltage	24 V DC positive
Discrete input current	3.5 mA
Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2
Discrete output number	8
Discrete output type	Relay
Discrete output voltage	24 V 19...30 V DC 24...240 V 10...264 V AC
Discrete output current	2000 mA

Complementary

Sensor power supply	19...26.4 V at 70 °C 19...30 V at 60 °C
Voltage state 1 guaranteed	>= 11 V
Current state 1 guaranteed	>= 2 mA
Voltage state 0 guaranteed	<= 5 V
Current state 0 guaranteed	<= 1.5 mA
Input impedance	6800 Ohm
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	<= 3.1 W
DC typical filtering time	4 ms
DC maximum filtering time	7 ms
Response time on output	<= 12 ms activation <= 10 ms deactivation
Paralleling of inputs	No
Typical current consumption	100 mA at 3.3 V DC
MTBF reliability	912167 H
Protection type	1 external fuse per group of input channel 0.5 A fast blow Reverse polarity protection on input 1 external fuse per output channel or group of output channel fast blow
Voltage detection threshold	> 18 V DC sensor OK < 14 V DC sensor fault
Minimum switching current	1 mA 5 V DC
Maximum switching voltage	264 V AC 125 V DC
Mechanical durability	>= 20000000 cycles

Electrical durability	300000 cycles DC-13 7.2 W 24 V at -25...60 °C 300000 cycles DC-13 3.6 W 24 V at 70 °C 300000 cycles AC-15 60 VA 200 V 0.35 at -25...60 °C 300000 cycles AC-15 36 VA 240 V 0.35 at -25...60 °C 300000 cycles AC-15 30 VA 200 V 0.35 at 70 °C 300000 cycles AC-15 18 VA 240 V 0.35 at 70 °C 300000 cycles AC-14 80 VA 200 V 0.7 at -25...60 °C 300000 cycles AC-14 72 VA 240 V 0.7 at -25...60 °C 300000 cycles AC-14 40 VA 200 V 0.7 at 70 °C 300000 cycles AC-14 36 VA 240 V 0.7 at 70 °C 100000 cycles DC-13 24 W 24 V at -25...60 °C 100000 cycles DC-13 12 W 24 V at 70 °C 100000 cycles AC-15 60 VA 240 V 0.35 at 70 °C 100000 cycles AC-15 200 VA 200 V 0.35 at -25...60 °C 100000 cycles AC-15 120 VA 240 V 0.35 at -25...60 °C 100000 cycles AC-15 100 VA 200 V 0.35 at 70 °C 100000 cycles AC-14 300 VA 200 V 0.7 at -25...60 °C 100000 cycles AC-14 240 VA 240 V 0.7 at -25...60 °C 100000 cycles AC-14 150 VA 200 V 0.7 at 70 °C 100000 cycles AC-14 120 VA 240 V 0.7 at 70 °C
Switching frequency	1 Hz
Status LED	1 LED red for module I/O 1 LED red for module error (ERR) 1 LED per channel green for channel diagnostic 1 LED green for module operating (RUN)
Product weight	0.135 kg

Environment

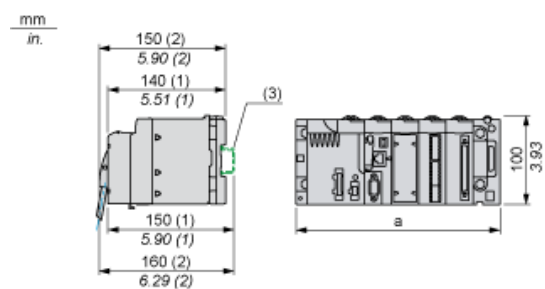
IP degree of protection	IP20
Standards	CSA C22.2 No 142 IEC 1131-2 IEC 664 NF C 63-850 UL 508 UL 746C
Dielectric strength	500 V DC 1 minute, between group of I/O 2830 V AC at 50/60 Hz 1 minute, output relay 1500 V AC at 50/60 Hz 1 minute, primary/secondary
Ambient air temperature for operation	-25...70 °C
Relative humidity	10...95 % without condensation
Protective treatment	Conformal coating Humiseal 1A33 TC
Environmental characteristic	3C4 conforming to EN/IEC 60721-3-3 3C3 conforming to EN/IEC 60721-3-3

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0911 - 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

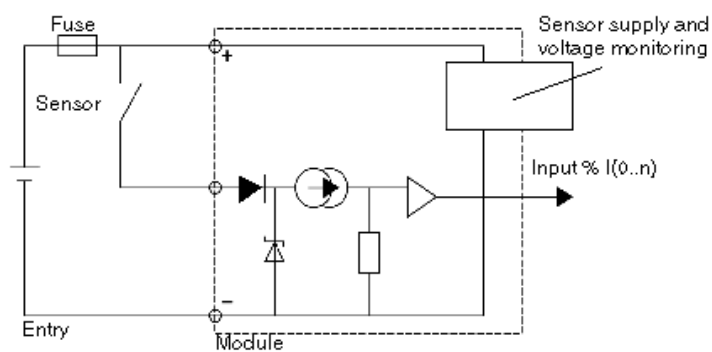


- (1) With removable terminal block (cage, screw or spring).
 (2) With FCN connector.
 (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

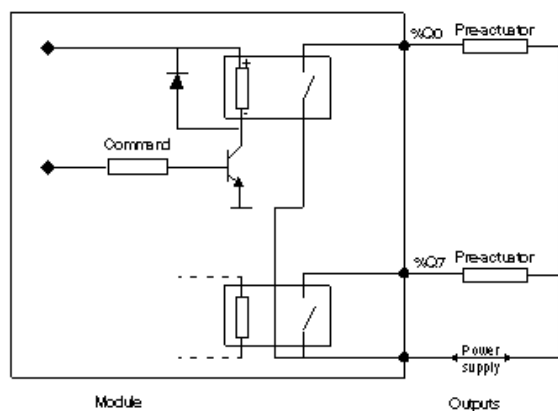
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connecting the Module

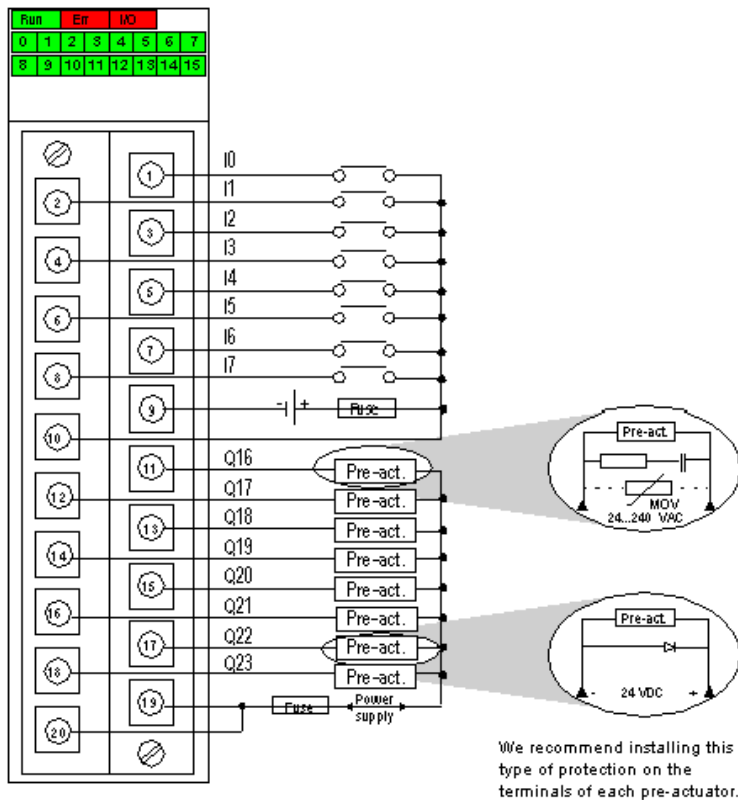
Input Circuit Diagram



Output Circuit Diagram



Module Connection



input 24 VDC
 power
 supply
 output 24 VDC or 24...240 VAC
 power
 supply
 input 1 fast blow fuse of 0.5 A
 fuse
 output 1 fast blow fuse of 12 A
 fuse
 pre- pre-actuator
 act