

BMXDDM16025

discrete I/O module M340 - 8 inputs - 24 V DC - 8 outputs - relay



Main

Range of product	Modicon X80
Product or component type	Discrete I/O module
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...30 V
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	≤ 10 ms deactivation ≤ 12 ms activation
Paralleling of inputs	No
Typical current consumption	100 mA at 3.3 V DC
MTBF reliability	912167 H
Protection type	1 external fuse per output channel or group of output channel fast blow Reverse polarity protection on input 1 external fuse per group of input channel 0.5 A fast blow
Voltage detection threshold	< 14 V DC sensor fault > 18 V DC sensor OK
Minimum switching current	1 mA 5 V DC
Maximum switching voltage	125 V DC 264 V AC
Mechanical durability	2000000 cycles
Electrical durability	100000 cycles AC-14 240 VA 240 V 0.7 100000 cycles AC-14 300 VA 200 V 0.7 100000 cycles AC-15 120 VA 240 V 0.35 100000 cycles AC-15 200 VA 200 V 0.35 100000 cycles DC-13 24 W 24 V 300000 cycles AC-14 72 VA 240 V 0.7 300000 cycles AC-14 80 VA 200 V 0.7 300000 cycles AC-15 36 VA 240 V 0.35 300000 cycles AC-15 60 VA 200 V 0.35 300000 cycles DC-13 7.2 W 24 V
Switching frequency	1 Hz

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Status LED	1 LED red for module error (ERR) 1 LED green for module operating (RUN) 1 LED per channel green for channel diagnostic 1 LED red for module I/O
Product weight	0.135 kg

Environment

directives	2012/19/EU - WEEE directive 2014/30/EU - electromagnetic compatibility 2014/35/EU - low voltage directive
IP degree of protection	IP20
product certifications	CE CSA UL RCM Merchant Navy EAC
standards	EN 61000-6-2 EN 61000-6-4 EN 61131-2 EN 61010-2-201
dielectric strength	1500 V AC at 50/60 Hz 1 minute, primary/secondary 2830 V AC at 50/60 Hz 1 minute, output relay 500 V DC 1 minute, between group of I/O
vibration resistance	3 gn
shock resistance	30 gn
ambient air temperature for storage	-40...85 °C
ambient air temperature for operation	0...60 °C
relative humidity	5...95 % without condensation 55 °C
protective treatment	TC
operating altitude	0...2000 m 2000...5000 m (with derating factor)

Offer Sustainability

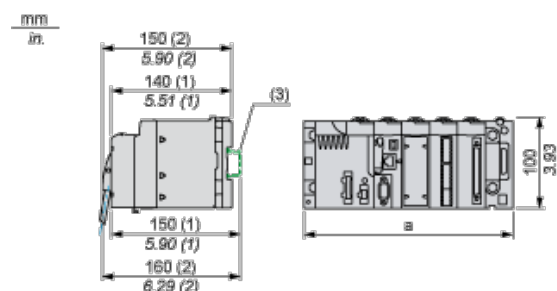
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0722 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months
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Modules Mounted on Racks

Dimensions



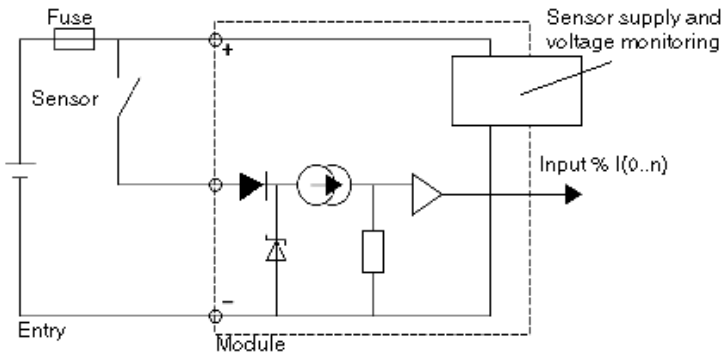
- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

Rack references	a in mm	a in in.

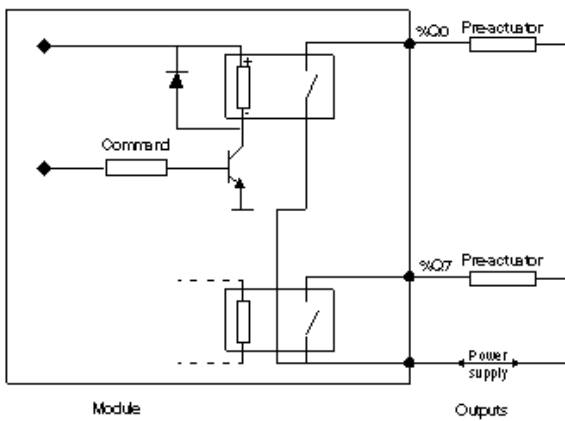
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connecting the Module

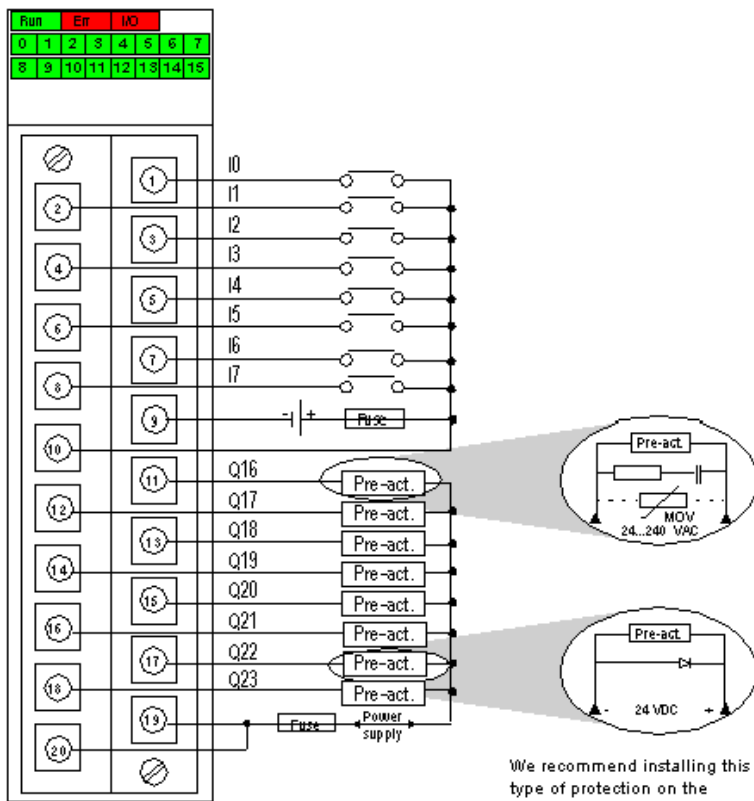
Input Circuit Diagram



Output Circuit Diagram



Module Connection



We recommend installing this type of protection on the terminals of each pre-actuator.

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