

Product data sheet

Characteristics

BMXDDM16022H

discrete I/O module X80 - 8 I - 24 V DC - 8 O -
solid state- severe



Product availability: Non-Stock - Not normally stocked in distribution facility



Main

Range of Product	Modicon X80
Product or Component Type	Discrete I/O module
Product Specific Application	For severe environments
Discrete input number	8
Input type	Current sink (logic positive)
Discrete input voltage	24 V DC positive
Discrete input current	3.5 mA
Discrete output number	8
Discrete output type	Solid state
Discrete output voltage	24 V 19...30 V DC 140 °F (60 °C) 24 V 26.4 V DC 158 °F (70 °C)
Discrete output current	0.5 A

Complementary

Input compatibility	With 2-wire/3-wire proximity sensors IEC 60947-5-2 With 2-wire/3-wire proximity sensors IEC 61131-2 type 3
Voltage range	21.1...29.0 V 158 °F (70 °C) 19...30 V 140 °F (60 °C)
Current state 1 guaranteed	≥ 3 mA
Current state 0 guaranteed	≤ 1.5 mA
Current per channel	0.55 A 158 °F (70 °C) 0.625 A 140 °F (60 °C)
Maximum current per module	5 A 140 °F (60 °C) 4.4 A 158 °F (70 °C)
Maximum leakage current	0.5 mA at state 0
Maximum voltage drop	<1.2 V at state 1
Input impedance	6800 Ohm
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	3.7 W
DC typical filtering time	4 Ms
DC maximum filtering time	7 Ms

Response time on output	1.2 ms
Paralleling of outputs	Yes : 2 maximum
Typical current consumption	79 MA 3.3 V DC 59 MA 24 V DC
Current consumption	<= 111 mA 3.3 V DC <= 67 mA 24 V DC
MTBF reliability	427772 H
Protection type	1 external fuse per group of input channel 0.5 A fast blow Overvoltage protection on output Reverse polarity protection on input reverse polarity protection on output
Output overload protection	With electronic circuit breaker $1.5 \text{ In} < \text{Id} < 2 \text{ In}$ With current limiter
Output overvoltage protection	With transil diode
Output short-circuit protection	With 2 A external fuse
Reverse polarity protection	Reverse mounted diode
Voltage detection threshold	< 14 V DC preactuator fault < 14 V DC sensor fault > 18 V DC preactuator OK > 18 V DC sensor OK
Maximum tungsten load	6 W
Switching frequency	0.5/LI ² Hz
Maximum overload time	15 Ms
Load impedance ohmic	>= 48 Ohm
Status LED	Module operating (RUN) 1 LED Green) Channel diagnostic 1 LED per channel Green) Module error (ERR) 1 LED Red) Module I/O 1 LED Red)
Net Weight	0.25 Lb(US) (0.115 kg)

Environment

IP Degree of Protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Environmental characteristic	Gas resistant class Gx Gas resistant class 3C4 Dust resistant class 3S4 Sand resistant class 3S4 Salt resistant level 2 Mold growth resistant class 3B2 Fungal spore resistant class 3B2
Dielectric strength	1500 V AC 50/60 Hz 1 minute, output/ground 1500 V AC 50/60 Hz 1 minute, output/internal logic 1500 V AC 50/60 Hz 1 minute, primary/secondary 500 V DC 1 minute, between group of inputs and outputs
Vibration resistance	3 gn
Shock resistance	30 gn
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Ambient air temperature for operation	-13...158 °F (-25...70 °C)
Relative humidity	5...95 % 131 °F (55 °C) without condensation
Protective treatment	Conformal coating
Operating altitude	0...6561.68 ft (0...2000 m) 2000...5000 m with derating factor

Ordering and shipping details

Category	18160 - MODICON M340
Discount Schedule	PC34
GTIN	3595864025186
Nbr. of units in pkg.	1
Package weight(Lbs)	5.54 Oz (157 g)
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.17 In (5.5 cm)
Package 1 width	4.33 In (11 cm)
Package 1 Length	4.72 In (12 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Weight	5.19 Lb(US) (2.355 kg)
Package 2 Height	5.91 In (15 cm)
Package 2 width	11.81 In (30 cm)
Package 2 Length	15.75 In (40 cm)

Offer Sustainability

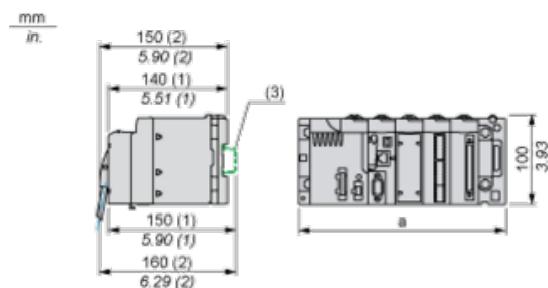
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	 REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months
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Modules Mounted on Racks

Dimensions



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

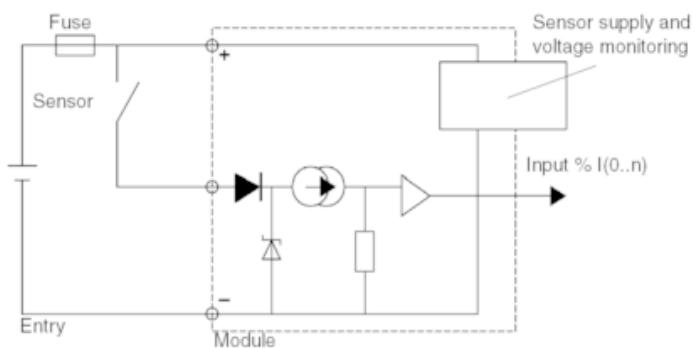
(2) With FCN connector.

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

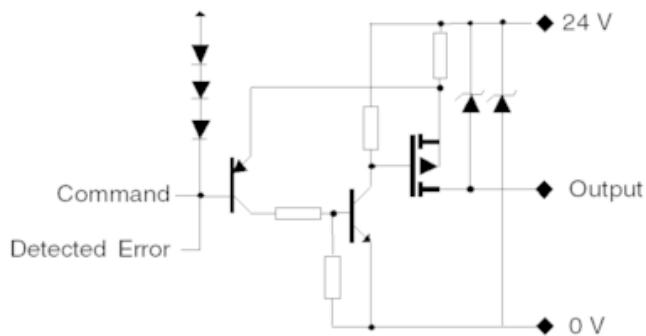
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	9.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connecting the Module

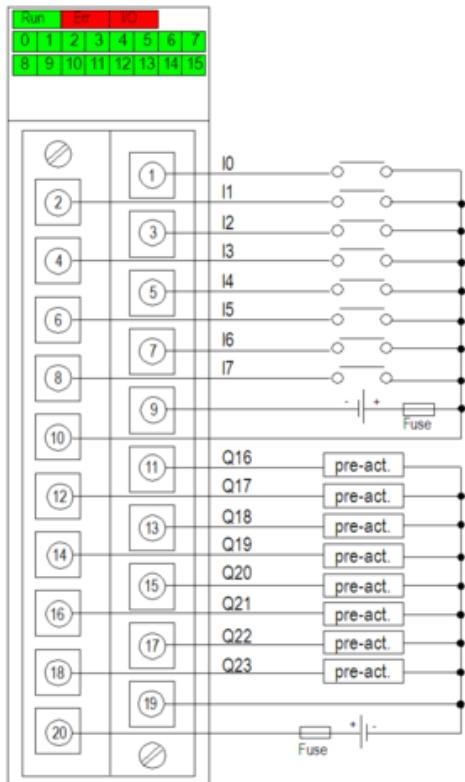
Input Circuit Diagram



Output Circuit Diagram



Module Connection



power supply 24 VDC

input fuse fast blow fuse of 0.5 A

output fuse fast blow fuse of 6.3 A

pre-act pre-actuator

Product Life Status : **Commercialised**