



## 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 In < Id < 2 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/LI² 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

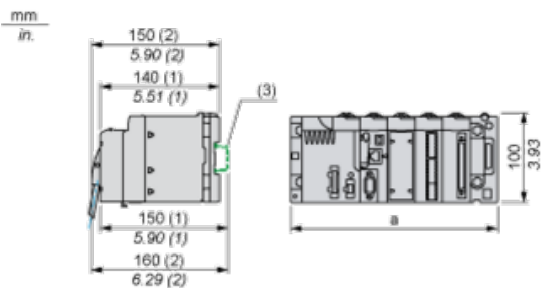
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
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
----------	-----------

Modules Mounted on Racks

Dimensions

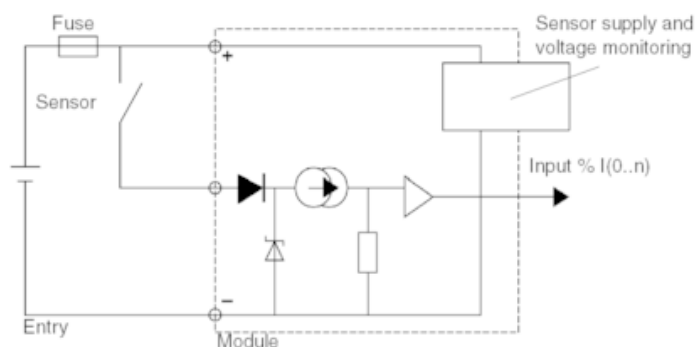


- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

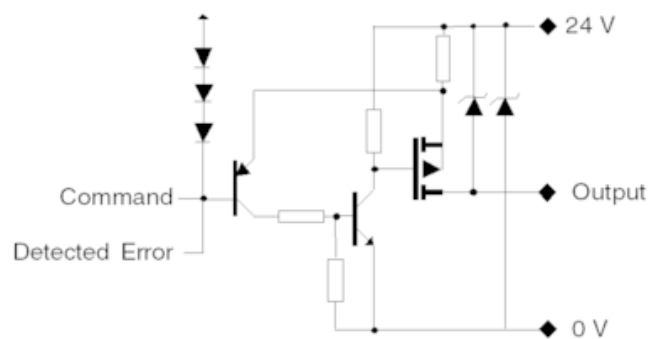
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

## Connecting the Module

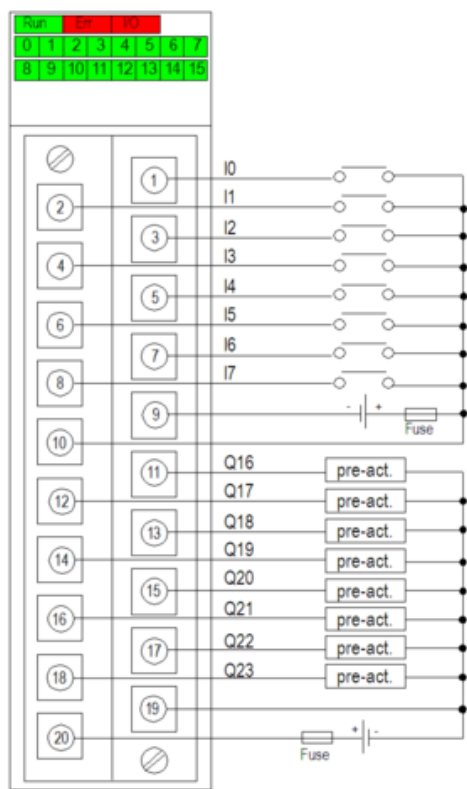
### Input Circuit Diagram



### Output Circuit Diagram



Module Connection



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