Product data sheet Characteristics

BMXDDM3202K

Discrete mixed I/O module, Modicon X80, 16 inputs, 16 outputs, 24V DC positive





Main

Range of Product	Modicon X80
Product or Component Type	Discrete I/O module
Discrete input number	16
Input type	Current sink (logic positive)
Discrete input voltage	24 V DC positive
Discrete input current	2.5 mA
Discrete output number	16
Discrete output type	Solid state
Discrete output voltage	24 V 1930 V DC
Discrete output current	0.1 A

Complementary

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 1	
Sensor power supply	1930 V	
Current state 1 guaranteed	>= 2 mA	
Current state 0 guaranteed	<= 0.5 mA	
Current per channel	0.125 A	
Maximum current per module	3.2 A	
Maximum leakage current	0.1 mA at state 0	
Maximum voltage drop	<1.5 V at state 1	
Input impedance	9600 Ohm	
Insulation resistance	> 10 MOhm 500 V DC	
Power dissipation in W	4 W	
DC typical response time	4 ms	
DC maximum response time	7 ms	
Response time on output	1.2 ms	
Paralleling of outputs	Yes : 3 maximum	
Typical current consumption	69 MA 24 V DC 125 mA 3.3 V DC	
Current consumption	<= 104 mA 24 V DC <= 166 mA 3.3 V DC	
MTBF reliability	430000 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 0.125 A < Id < 0.185 A 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	1.2 W	
Switching frequency	0.5/Ll² Hz	

Maximum overload time	15 ms
Load impedance ohmic	<= 220 Ohm
Status LED	1 LED (Green) module operating (RUN) 1 LED per channel (Green) channel diagnostic 1 LED (Red) module error (ERR) 1 LED (Red) module I/O
Net Weight	0.24 lb(US) (0.11 kg)

Environment

IP Degree of Protection	IP20	
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility	
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	-40185 °F (-4085 °C)	
Ambient Air Temperature for Operation	32140 °F (060 °C)	
Relative humidity	595 % 131 °F (55 °C) without condensation	
Operating altitude	06561.68 ft (02000 m) 20005000 m with derating factor	

Ordering and shipping details

Category	18160-MODICON M340
Discount Schedule	PC34
GTIN	3595863910636
Returnability	Yes
Country of origin	FR

Packing Units

r doming orme	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.17 in (5.500 cm)
Package 1 Width	4.53 in (11.500 cm)
Package 1 Length	4.61 in (11.700 cm)
Package 1 Weight	4.73 oz (134.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	5.19 lb(US) (2.355 kg)

Offer Sustainability

Green Premium product	
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 Declaration	
Yes	
Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Yes	
[™] China RoHS Declaration	

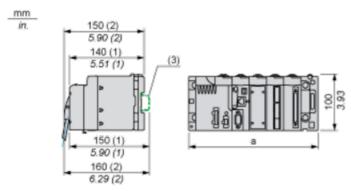
RoHS exemption information	☑ Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	☑ End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Contractual warranty	
Warranty	18 months

Product data sheet Dimensions Drawings

BMXDDM3202K

Modules Mounted on Racks

Dimensions

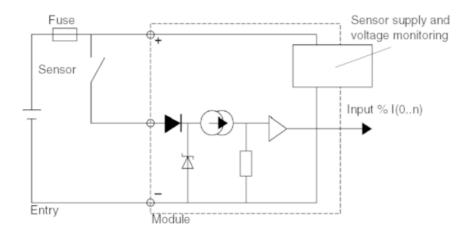


- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

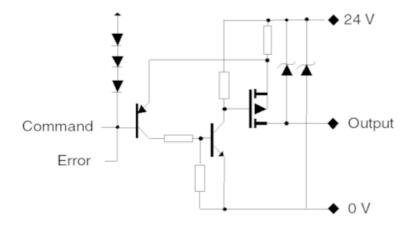
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connecting the Module

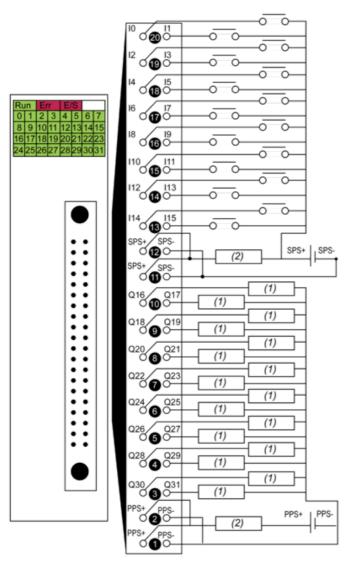
Input Circuit Diagram



Output Circuit Diagram



Module Connection



(1) pre-actuator

(2) fuse

power supply 24 VDC input fuse fast blow fuse of 0.5 $\mbox{\ensuremath{\mbox{A}}}$ output fuse fast blow fuse of 2 A SPS sensor power supply PPS pre-actuator power supply