BMXDDM3202K

discrete I/O module X80 - 16 inputs - 24 V DC - 16 outputs - solid state



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, discrete input logic: 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

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Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2 With 2-wire/3-wire proximity sensors conforming to 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 at 24 V DC 125 mA at 3.3 V DC		
Current consumption	<= 104 mA at 24 V DC <= 166 mA at 3.3 V DC		
MTBF reliability	430000 H		
Protection type	1 external fuse per group of input channel0.5 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	0.11 kg

Environment

IP degree of protection	IP20	
Directives	2014/35/EU - low voltage directive	
	2014/30/EU - electromagnetic compatibility	
Dielectric strength	1500 V AC at 50/60 Hz 1 minute, output/ground	
	1500 V AC at 50/60 Hz 1 minute, output/internal logic	
	1500 V AC at 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	-4085 °C	
Ambient air temperature for operation	060 °C	
Relative humidity	595 % at 55 °C without condensation	
Operating altitude	02000 m	
	20005000 m with derating factor	

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	11.500 cm
Package 1 Length	11.700 cm
Package 1 Weight	134.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	2.355 kg

Offer Sustainability

REACh Regulation	REACh Declaration		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
Mercury free	Yes		
China RoHS Regulation	China RoHS Declaration		
RoHS exemption information	₫Yes		
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		

Contractual warranty

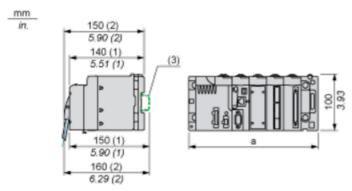
Warranty	18 months

Product data sheet Dimensions Drawings

BMXDDM3202K

Modules Mounted on Racks

Dimensions

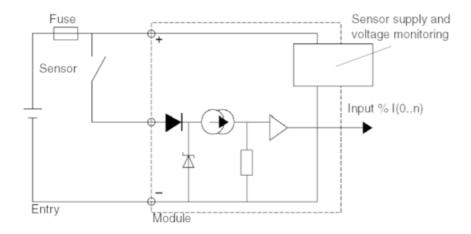


- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- $(3) On AM1 ED \ rail: 35 \ mm \ wide, 15 \ mm \ deep. \ Only \ possible \ with \ BMXXBP0400/0400H/0600/0600H/0800/0800H \ rack.$

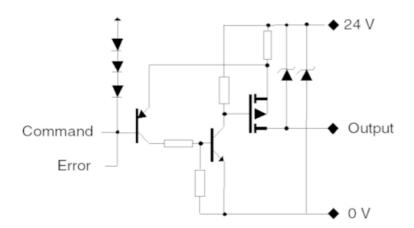
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connecting the Module

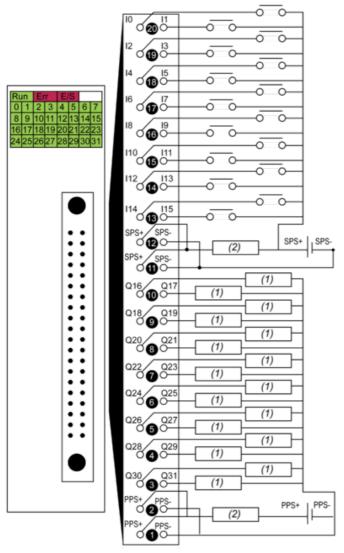
Input Circuit Diagram



Output Circuit Diagram



Module Connection



- (1) pre-actuator
- (2) fuse power supply 24 VDC input fuse fast blow fuse of 0.5 A output fuse fast blow fuse of 2 A SPS sensor power supply PPS pre-actuator power supply