BMXDDI1602H

discrete input module, Modicon X80, 16 inputs, 24V DC positive, for severe environments



Main	
Range of Product	Modicon X80
Product or Component Type	Discrete input module
Product Specific Application	For severe environments
Discrete input number	16
Discrete input type	Isolated
Input type	Current sink (logic positive)
Discrete input voltage	24 V DC positive
Discrete input current	3.5 mA

Comple	ementary
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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
Sensor power supply	1930 V 140 °F (60 °C) 21.126.4 V 158 °F (70 °C)
Current state 1 guaranteed	>= 2 mA
Current state 0 guaranteed	<= 1.5 mA
Input impedance	6800 Ohm
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	2.5 W
DC typical response time	4 ms
DC maximum response time	7 ms
Paralleling of inputs	Yes
Typical current consumption	76 mA 3.3 V DC
MTBF reliability	775000 H
Protection type	1 external fuse per group of channel 0.5 A fast blow Reverse polarity protection
Voltage detection threshold	< 14 V DC sensor fault > 18 V DC sensor OK
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	0.25 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, primary/secondary	
Vibration resistance	3 gn	
Shock resistance	30 gn	
Ambient Air Temperature for Storage	-40185 °F (-4085 °C)	

Ambient Air Temperature for Operation	-13158 °F (-2570 °C)	
Relative humidity	595 % 131 °F (55 °C) without condensation	
Protective treatment	Conformal coating	
Operating altitude	06561.68 ft (02000 m) 20005000 m with derating factor	

Ordering and shipping details

Category	18160-MODICON M340
Discount Schedule	PC34
GTIN	3595864025605
Returnability	Yes
Country of origin	ID

Packing Units

PCE 1 2.17 in (5.5 cm)
•
2 17 in (5.5 cm)
-··· (·· (·· (·· (·· (·· (·· (·· (·· (··
4.33 in (11.0 cm)
4.53 in (11.5 cm)
5.82 oz (165.0 g)
S02
15
5.91 in (15 cm)
11.81 in (30 cm)
15.75 in (40 cm)
6.40 lb(US) (2.901 kg)
P06
240
29.53 in (75.0 cm)
23.62 in (60.0 cm)
31.50 in (80.0 cm)
130.07 lb(US) (59 kg)

Offer Sustainability

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
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

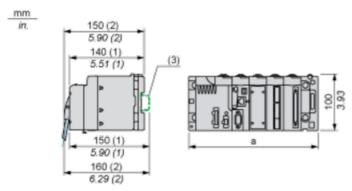
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	Warranty	18 months

Product data sheet Dimensions Drawings

BMXDDI1602H

Modules Mounted on Racks

Dimensions



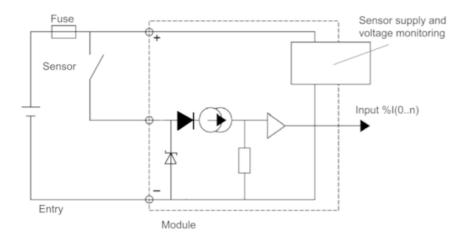
- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- $(3) On AM1 ED \ rail: 35 \ mm \ wide, 15 \ mm \ deep. \ Only \ possible \ with \ BMXXBP0400/0400H/0600/0600H/0800/0800H \ rack.$

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

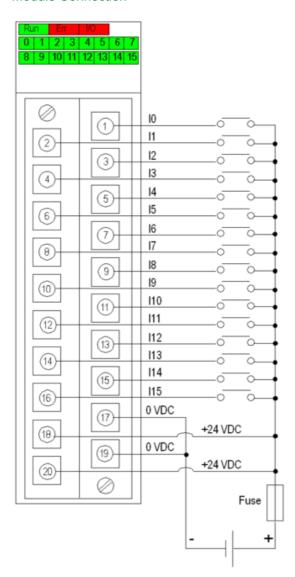
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Connecting the Module

Input Circuit Diagram



Module Connection



power supply 24 VDC fuse fast blow fuse of 0.5 A