

# BMXDDI1602

discrete input module X80 - 16 inputs - 24 V DC positive



## Main

Range of product	Modicon X80
Product or component type	Discrete input module
Discrete input number	16
Discrete input type	Isolated
Input type	Current sink (logic positive)
Discrete input voltage	24 V DC, discrete input logic: positive
Discrete input current	3.5 mA
Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2

## Complementary

Sensor power supply	19...30 V
Voltage state 1 guaranteed	$\geq 11$ V
Current state 1 guaranteed	$\geq 2$ mA
Voltage state 0 guaranteed	$\leq 5$ V
Current state 0 guaranteed	$\leq 1.5$ mA
Input impedance	6800 Ohm
Insulation resistance	$> 10$ MOhm 500 V DC
Maximum power dissipation in W	2.5 W
DC typical filtering time	4 ms
DC maximum filtering time	7 ms
Paralleling of inputs	Yes
Typical current consumption	90 mA at 3.3 V DC
MTBF reliability	798237 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	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	0.115 kg
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## Environment

IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2012/19/EU - WEEE directive
Product certifications	RCM CSA UL EAC CE Merchant Navy
Standards	EN 61131-2 EN 61000-6-4 EN 61000-6-2 EN 61010-2-201
Dielectric strength	1500 V AC at 50/60 Hz 1 minute, primary/secondary
Vibration resistance	3 gn
Shock resistance	30 gn
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	0...60 °C
Relative humidity	5...95 % at 55 °C without condensation
Protective treatment	TC
Operating altitude	0...2000 m 2000...5000 m with derating factor

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
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="#">Download RoHS China 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
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>

## Contractual warranty

Warranty	18 months
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