

# BMXDRC0805

discrete output module, Modicon X80, 8 NO or NC relay outputs, 24 to 240V AC, 24 to 125V DC



## Main

Range of product	Modicon X80
Product or component type	Relay discrete output module
Discrete output number	8 conforming to EN/IEC 61131-2
Discrete output logic	Positive or negative
Discrete output voltage	5...125 V 5...150 V DC 24...240 V 19...264 V AC

## Complementary

Electrical connection	40 ways terminal block
Network frequency	50/60 Hz
Network frequency limits	47...63 Hz
Sensor power supply	5...150 V 19...264 V
[I <sub>th</sub> ] conventional free air thermal current	4 A 40 °C 3 A 50 °C 2 A 60 °C
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	3.6 W
Response time on output	<= 10 ms activation <= 13 ms deactivation
Typical current consumption	40 MA at 3.3 V DC 101 mA at 24 V DC
MTBF reliability	2650000 H
Protection type	External short-circuit protection External overload protection External overvoltage protection, inductive AC network External overvoltage protection, inductive DC network
Output overload protection	Use 1 fast blow fuse per channel or group of channel
Output overvoltage protection	Use discharge diode on each output DC Use RC circuit on each output AC Use ZNO surge limiter on each output AC
Output short-circuit protection	Use 1 fast blow fuse per channel or group of channel
Minimum switching current	10 mA 5 V DC

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Electrical durability	AC-12: 200000 cycles at 48 VA 24 V at 0...60 °C AC-12: 300000 cycles at 48 VA 48 V at 0...60 °C AC-12: 150000 cycles at 96 VA 48 V at 0...60 °C AC-12: 300000 cycles at 110 VA 100...120 V at 0...60 °C AC-12: 150000 cycles at 220 VA 100...120 V at 0...60 °C AC-12: 300000 cycles at 220 VA 200...250 V at 0...60 °C AC-12: 150000 cycles at 500 VA 200...250 V at 0...60 °C AC-15: 700000 cycles at 10 VA 24 V at 0...60 °C (load factor 0.4) AC-15: 500000 cycles at 24 VA 24 V at 0...60 °C (load factor 0.4) AC-15: 200000 cycles at 48 VA 24 V at 0...60 °C (load factor 0.4) AC-15: 700000 cycles at 10 VA 48 V at 0...60 °C (load factor 0.4) AC-15: 500000 cycles at 24 VA 48 V at 0...60 °C (load factor 0.4) AC-15: 300000 cycles at 48 VA 48 V at 0...60 °C (load factor 0.4) AC-15: 100000 cycles at 96 VA 48 V at 0...60 °C (load factor 0.4) AC-15: 1000000 cycles at 10 VA 100...120 V at 0...60 °C (load factor 0.4) AC-15: 300000 cycles at 50 VA 100...120 V at 0...60 °C (load factor 0.4) AC-15: 200000 cycles at 110 VA 100...120 V at 0...60 °C (load factor 0.4) AC-15: 70000 cycles at 220 VA 100...120 V at 0...60 °C (load factor 0.4) AC-15: 1000000 cycles at 10 VA 200...250 V at 0...60 °C (load factor 0.4) AC-15: 500000 cycles at 50 VA 200...250 V at 0...60 °C (load factor 0.4) AC-15: 200000 cycles at 110 VA 200...250 V at 0...60 °C (load factor 0.4) AC-15: 150000 cycles at 220 VA 200...250 V at 0...60 °C (load factor 0.4) DC-12: 200000 cycles at 24 W 24 V at 0...60 °C DC-12: 150000 cycles at 48 W 24 V at 0...60 °C DC-12: 150000 cycles at 40 W 48...60 V at 0...60 °C DC-12: 100000 cycles at 45 W 100...125 V at 0...60 °C DC-13: 100000 cycles at 10 W 24 V at 0...60 °C DC-13: 60000 cycles at 24 W 24 V at 0...60 °C DC-13: 40000 cycles at 48 W 24 V at 0...60 °C DC-13: 40000 cycles at 40 W 48...60 V at 0...60 °C DC-13: 100000 cycles at 15 W 100...125 V at 0...60 °C
Status LED	1 LED (green) RUN 1 LED per channel (green) channel diagnostic 1 LED (red) ERR 1 LED (red) I/O
Net weight	0.189 kg

## Environment

IP degree of protection	IP20
Dielectric strength	1780 V AC at 50/60 Hz 1 min
Vibration resistance	3 gn
Shock resistance	30 gn
Relative humidity	0...95 % at 0...60 °C without condensation
Operating altitude	0...2000 m 2000...5000 m with derating factor

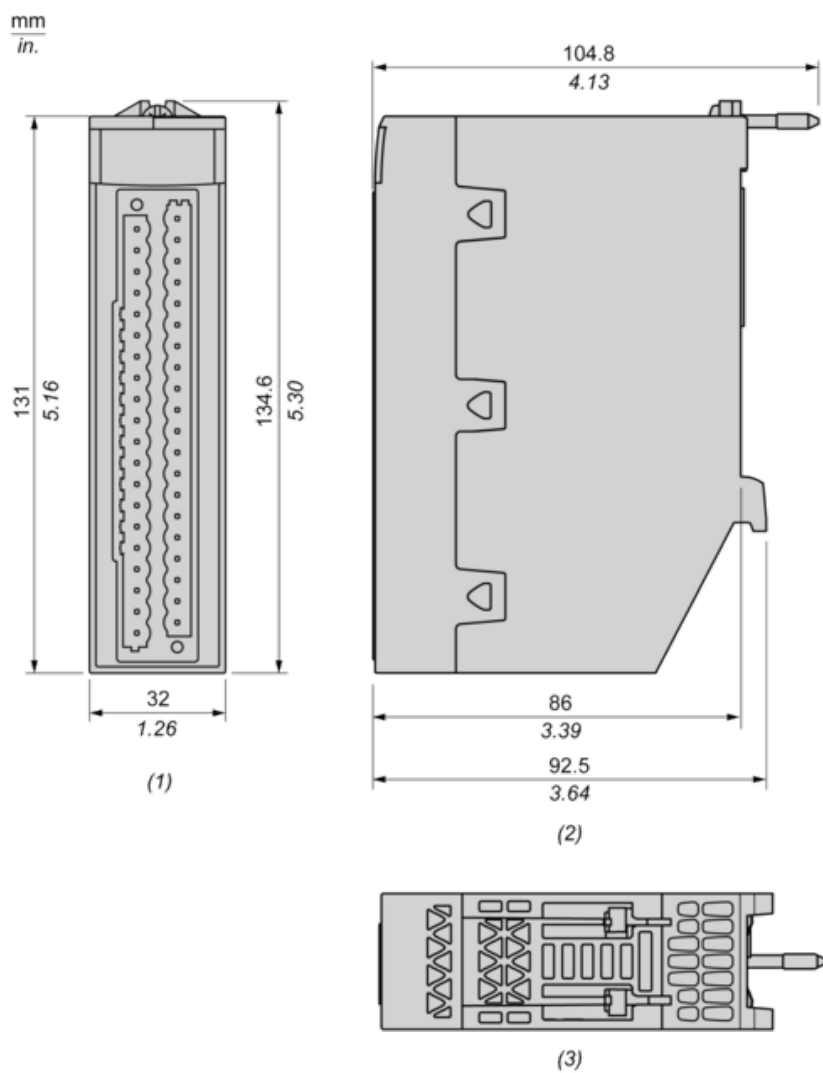
## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	18.000 cm
Package 1 Length	26.000 cm
Package 1 Weight	338.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.180 kg

## 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)
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</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

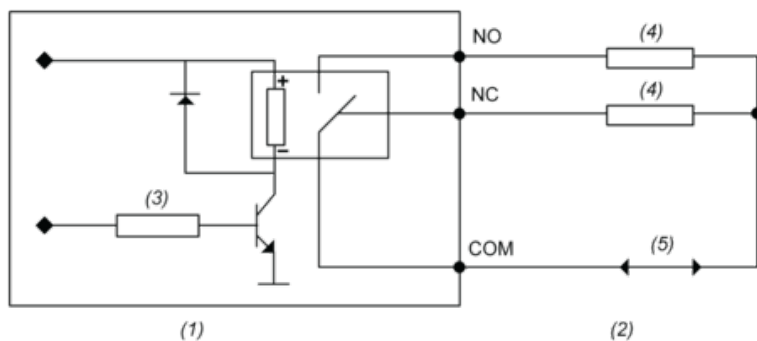
Dimensions



- (1) Front view
- (2) Right view
- (3) Top view

## Connecting the Module

### Output Circuit Diagram



(1) Module

(2) Output

(3) Command

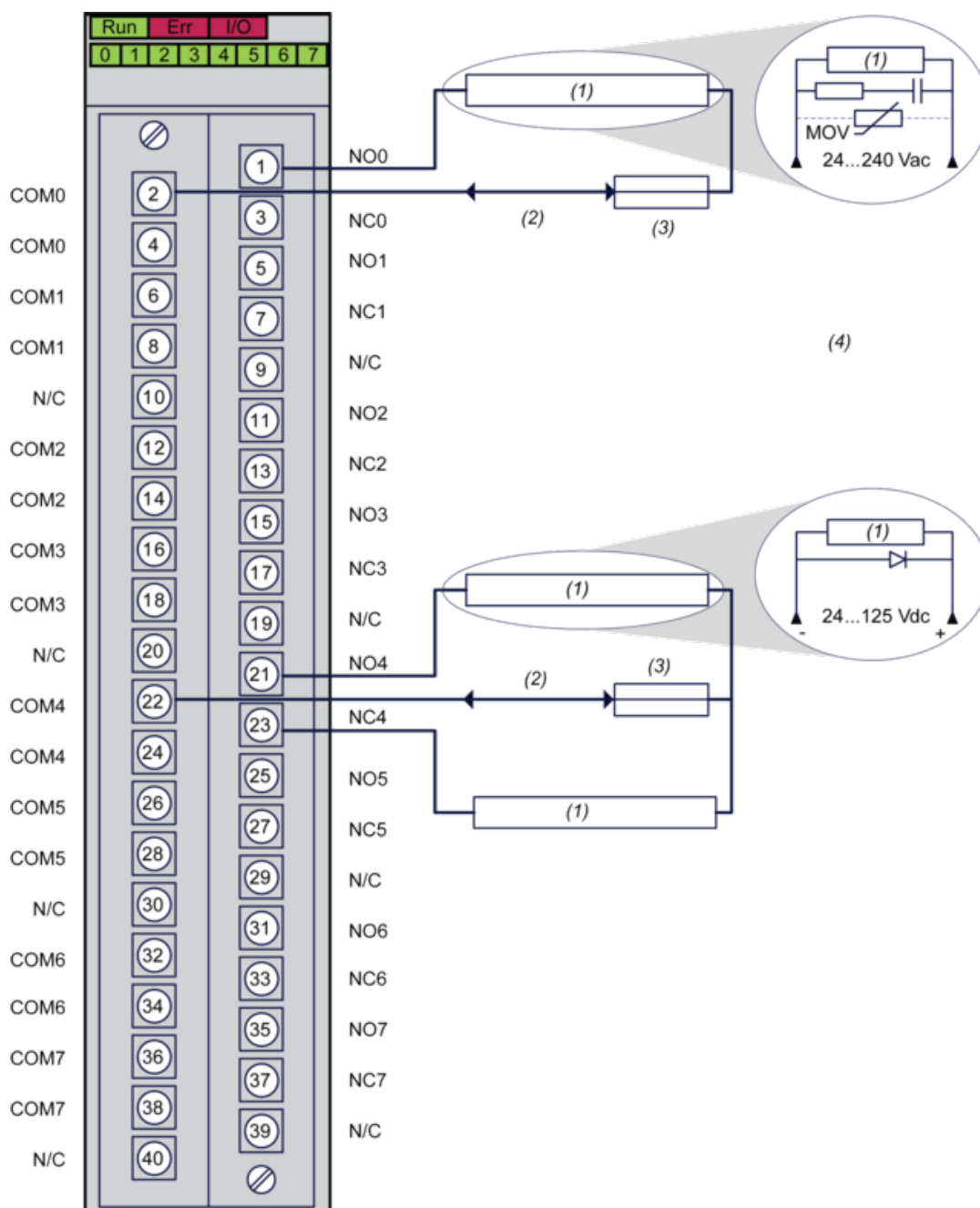
(4) Pre-actuator

(5) Power supply

NO : Normally open output

NC : Normally closed output

## Module Connection



(1) Pre-actuator

(2) Power supply : 24...125 Vdc or 24...240 Vac

(3) Fuse : Use appropriate fast-blow fuse for each relay

(4) We recommend installing this type of protection on the terminals of each pre-actuator

N/C : Not connected