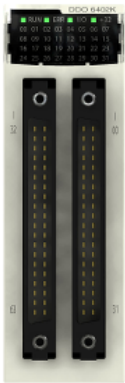


# Product data sheet

Specifications



## Discrete output module, Modicon X80, 64 transistor outputs, 24V DC positive

BMXDDO6402K

### Main

|                           |                                 |
|---------------------------|---------------------------------|
| Range of product          | Modicon X80                     |
| Product or component type | Discrete output module          |
| Discrete output number    | 64 conforming to EN/IEC 61131-2 |
| Discrete output type      | Solid state                     |
| Discrete output logic     | Positive                        |
| Discrete output voltage   | 24 V 19...30 V DC               |
| Discrete output current   | 0.1 A                           |

### Complementary

|                                 |  |
|---------------------------------|--|
| Current per channel             | 0.125 A  |
| Maximum current per module      | 6.4 A  |
| Insulation resistance           | > 10 MOhm 500 V DC   |
| Power dissipation in W          | 6.85 W   |
| Response time on output         | 1.2 ms   |
| Paralleling of outputs          | Yes : 3 maximum  |
| Typical current consumption     | 160 mA at 3.3 V DC   |
| MTBF reliability                | 150000 H   |
| Protection type                 | External fuse reverse polarity protection<br>short-circuit protection<br>overload protection<br>overvoltage protection |
| Output overload protection      | With current limiter<br>With electronic circuit breaker $0.125\text{ A} < I_d < 0.185\text{ A}$                        |
| 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<br>> 18 V DC preactuator at state 0  |
| Maximum tungsten load           | 1.2 W  |
| Switching frequency             | 0.5/LI² Hz   |
| Maximum overload time           | 15 ms  |
| Load impedance ohmic            | $\geq 220\text{ Ohm}$  |

|                                       |  |
|---------------------------------------|--|
| Status LED                            | 1 LED (green) +32 channels indicator<br>1 LED (green) module operating (RUN)<br>1 LED per channel (green) channel diagnostic<br>1 LED (red) module error (ERR)<br>1 LED (red) module I/O |
| Net weight                            | 0.15 kg  |
| Environment                           |  |
| IP degree of protection               | IP20   |
| Directives                            | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility   |
| Dielectric strength                   | 1500 V AC at 50/60 Hz 1 minute, output/ground<br>1500 V AC at 50/60 Hz 1 minute, output/internal logic<br>500 V DC 1 minute, between group of channels                                   |
| 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   |
| Operating altitude                    | 0...2000 m<br>2000...5000 m with derating factor   |
| Packing Units                         |  |
| Unit Type of Package 1                | PCE  |
| Number of Units in Package 1          | 1  |
| Package 1 Height                      | 5.45 cm  |
| Package 1 Width                       | 10.793 cm  |
| Package 1 Length                      | 11.288 cm  |
| Package 1 Weight                      | 201.0 g  |
| Unit Type of Package 2                | S02  |
| Number of Units in Package 2          | 15   |
| Package 2 Height                      | 15 cm  |
| Package 2 Width                       | 30 cm  |
| Package 2 Length                      | 40 cm  |
| Package 2 Weight                      | 3.5 kg   |
| Unit Type of Package 3                | P06  |
| Number of Units in Package 3          | 240  |
| Package 3 Height                      | 75.0 cm  |
| Package 3 Width                       | 60.0 cm  |
| Package 3 Length                      | 80.0 cm  |
| Package 3 Weight                      | 67 kg  |
| Offer Sustainability                  |  |
| Sustainable offer status              | Green Premium product  |
| REACH Regulation                      | <a href="#">REACH Declaration</a>  |
| REACH free of SVHC                    | Yes  |
| EU RoHS Directive                     | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>  |

|                            |   |
|----------------------------|---|
| 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   |
| 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 |
|----------|-----------|

Modules Mounted on Racks

Dimensions

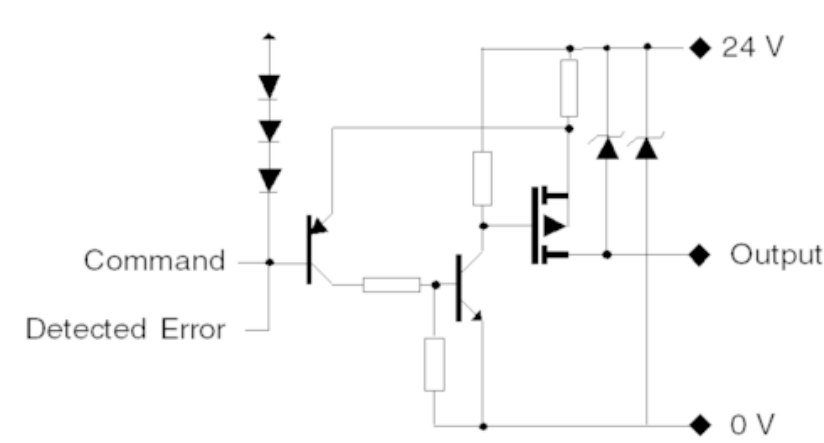


- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

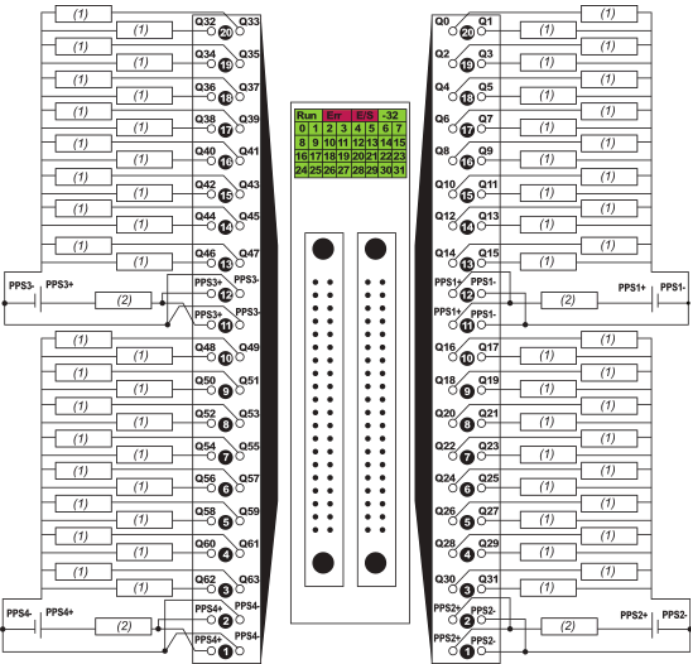
| Rack references            | a in mm | a in in. |
|----------------------------|---------|----------|
| BMXXBP0400 and BMXXBP0400H | 242.4   | 09.54    |
| BMXXBP0600 and BMXXBP0600H | 307.6   | 12.11    |
| BMXXBP0800 and BMXXBP0800H | 372.8   | 14.68    |
| BMXXBP1200 and BMXXBP1200H | 503.2   |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

Connecting the Module

Output Circuit Diagram



Module Connection



- (1) pre-actuator
- (2) fuse: fast blow fuse of 2 A for each 16-channel group
- power supply 24 VDC
- PPS pre-actuator power supply

Recommended replacement(s)