# Product data sheet
## Characteristics

# BMXDDI6402K
discrete input module, Modicon X80, 64 inputs, 24V DC positive



## Main

| | |
|---|---|
| Range of product | Modicon X80 |
| Product or component type | Discrete input module |
| Discrete input number | 64 |
| Discrete input voltage | 24 V DC for isolated |
| Discrete input logic | Positive logic (sink) |

## Complementary

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|---|---|
| Discrete input number | 64 isolated at 24 V DC |
| Discrete input current | 0.6 MA at 24 V DC |
| Voltage state 1 guaranteed | >= 15 V |
| Voltage state 0 guaranteed | <= 4 V |
| Input impedance | 40000 Ohm |
| Paralleling of inputs | No |
| Insulation resistance | > 10 MOhm 500 V DC |
| DC typical filtering time | 4 Ms |
| DC maximum filtering time | 7 Ms |
| Sensor power supply | : 19…30 V |
| Typical current consumption | 160 MA DC |
| Power dissipation in W | 4.3 W |
| Isolation between channels and bus | 1500 V for 1 minute |
| Hot swapping fallback | Yes |
| MTBF reliability | 510000 H |
| Voltage detection threshold | < 14 V DC sensor fault<br>> 18 V DC sensor OK |
| Local signalling | 1 LED (green) for +32 channels indicator<br>1 LED (green) for module operating (RUN)<br>1 LED per channel (green) for channel diagnostic<br>1 LED (red) for module error (ERR)<br>1 LED (red) for module I/O |
| Height | 134.6 Mm |
| Width | 32 Mm |
| Depth | 86 Mm |
| Net weight | 0.145 Kg |

## Environment

| | |
|---|---|
| IP degree of protection | IP20 |
| Protective treatment | Standard version |
| Marking | CE<br>UKCA<br>CULus<br>RCM<br>EAC |
| Directives | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility |
| Dielectric strength | 1500 V AC at 50/60 Hz 1 minute, primary/secondary<br>500 V DC 1 minute, between group of channels |
| Ambient air temperature for operation | 0…60 °C |
| Ambient air temperature for storage | -40…85 °C |
| Relative humidity | 5…95 % at 55 °C without condensation |
| Operating altitude | 0...2000 m<br>2000...5000 m with derating |
| Pollution degree | 2 |
| Vibration resistance | 3 gn |
| Shock resistance | 30 gn |

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 5.700 Cm |
| Package 1 Width | 11.200 Cm |
| Package 1 Length | 11.800 Cm |
| Package 1 Weight | 180.000 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 | 3.420 Kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 240 |
| Package 3 Height | 75.000 Cm |
| Package 3 Width | 60.000 Cm |
| Package 3 Length | 80.000 Cm |
| Package 3 Weight | 60.000 Kg |

## Offer Sustainability

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|---|---|
| Recyclability potential, in % | 3 |
| Total lifecycle Carbon footprint | 52 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 24.2762424242 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 24 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.0248450909 |
| Carbon footprint of the distribution phase [A4] | 0 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.0505929697 |
| Carbon footprint of the installation phase [A5] | 0.1 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 27.1406748603 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 27 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.3371406061 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.3 kg CO2 eq. |

| | |
|---|---|
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 52 |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| SCIP Number | 130c21ff-36ae-45a2-8c24-c392d61c9f1e |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant By Exemption |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, w |
| End of life manual availability | End Of Life Information |
| Take-back | No |

## Contractual warranty

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|---|---|
| Warranty (in months) | 18 |

Product Life Status : Commercialised