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# Digital Input/Output Modules

**This product is no longer available. Contact MKS Applications Support for more information.**

MKS digital input/output modules provide a compact and high density solution for integrating digital input and output channels with MKS PAC or CM modules. Each DIO module supports 12 digital inputs and 12 digital outputs.



## Specifications

| | |
|---|---|
| **Type** | Digital Input/Output Module |
| **Number of Inputs** | 12 |
| **Input Type** | Sink or Source |
| **Number of Outputs** | 12 |
| **Power Consumption** | @ 200mA ≥ 24V_IO@ 2.5Amp, 24V_CORE@ 0.15Amp (per module) Assuming all DOs are loaded |
| **Input Isolation** | 2.5 kVrms |
| **DI refresh rate** | 10µs or 1ms |
| **Debounce Filter** | Fixed to 4 cycles of DI Refresh Rate (10.8 µsec) |
| **Logic Level** | 24 VDC (8VDC - 30 VDC) |
| **Maximum update rate** | 25 µSec |
| **Output Type** | Open collector sink/source |
| **Protection** | ESD to IEC 1000-4-2 ±4kV contact, DC + 5% (each channel) |
| **Pull Up/Down Value** | 22K |
| **Sink Input Logic Level** | 24VDC ±5% |
| **Sink Input Nominal Load Impedance** | 6 kOhm |
| **Sink Input Current, Maximum OFF** | 2.25mA (10.7 V) |
| **Sink Input Current, Minimum ON** | 3.3mA (4.5 V) |
| **Sink Input Current, Maximum ON** | 4.7mA |
| **Sink Output Maximum thermal current limit (ON)** | 2A per bank of 6 |
| **Sink Output Maximum Available Current Sink (ON)** | 200mA |
| **Sink Output Maximum Leakage Current (OFF)** | 0.1mA (output tied to 24v) |
| **Sink Output Maximum Voltage Drop (ON)** | Maximum 1.1v @ 200mA |
| **Sink Output Minimum Thermal Current Limit (ON)** | 1A per bank of 6 |
| **Sink Output Maximum Inductive Load Energy, 1Hz Cycled** | 60mJ |
| **Source Input Logic level** | 24v |
| **Source Input High Voltage Range OFF** | 12.8V (2.15 mA) |
| **Source Input Low Voltage Range ON** | 15V (2.5 mA) |
| **Source Input Input Current, Maximum ON** | 4.7mA |
| **Source Input Nominal Load Impedance** | 6 kOhm |
| **Source Output Maximum Available Current Source (ON)** | 200mA |
| **Source Output Maximum Thermal Current Limit (ON)** | 2A per bank of 6 |
| **Source Output Maximum Leakage Current (OFF)** | 0.1mA (output tied to ground) |
| **Source Output Minimum Thermal Current Limit (ON)** | 1A per bank of 6 |
| **Source Output Output High Voltage** | Minimum 23.7V @ 200mA |
| **Source Output Maximum Inductive Load Energy, 1Hz Cycled** | 60mJ |
| **Operating Temperature** | 0 to 55°C, with 2°C upper limit reduction per 1000 ft above sea level |
| **Storage Temperature** | -40°C to 85°C |
| **Altitude** | 0-10,000 ft above sea level |
| **Humidity** | 5-85% non-condensing |
| **Dimensions** | 35 x 125 x 92.3 mm (1.4 x 3.3 x 4.9 inches) (W x H x D) |

| | | |
|---|---|---|
| Mounting | DIN rail | **Digital Input/Output Modules** |

## Need help?

Contact an Applications Specialist by sending us an email

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