

MonoDAQ-E-DO4

Isolated digital outputs with high current capability can drive motors, pumps or valves as well as trigger pure digital signals. Three power supply voltages (5V, 12V and device voltage supply level) available on the front connector. EtherCAT interface, signal and power over the same cable. (www.monodaq.com).

Key features:

- 4 isolated open collector digital outputs
- Up to 50 V, 2 A sink
- EtherCAT bus, daisy-chaining with single cable up to 50 m device-device
- DEWESoft X3 software support

Typical applications:

- Valve swtiching without additional relay
- Pump, motor drive (PWM)



Digital output specification:

| | Тур. | Unit | |
|-------------------------------------|---|------|--|
| Number of output channels | 4 | | |
| Update rate from DEWESoft software | 1 | kS/s | |
| Output type | open collector with active internal pullup to 5 V | | |
| Sink | 50 V, 2 A (resistive load, unprotected) | | |
| Source | 5 V, max 40 mA, (internally limited) | | |
| Max. switching frequency (PWM mode) | 100 | kHz | |
| Isolation | channel-ground | | |
| Front connector | DSUB15HD female | | |

Non-isolated power supply (front connector) specification:

| Output voltage +5 V | 5 V +-10 % | | | |
|--|---|----|--|--|
| Max. output current +5 V | 300 | mA | | |
| Output voltage +5 V | 12 V +-10 % | | | |
| Max. output current +5 V | 100 | mA | | |
| Output voltage +Vin | Vin (device EtherCAT cable power voltage) | | | |
| Max. output current +Vin | 200 | mA | | |
| Note: Max. combined load on +5V and +12V pins: 1.5 W reduced by the load already present on +Vin pin | | | | |

General specification:

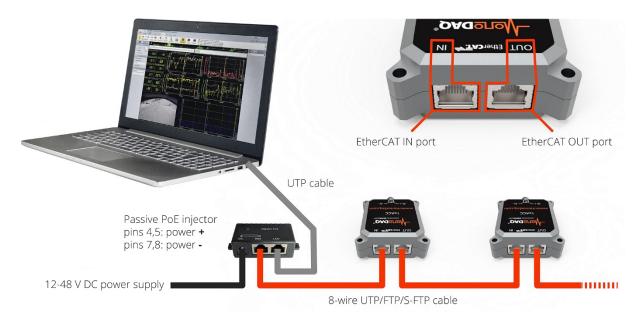
| Digital interface | EtherCAT | |
|---------------------------|--|--|
| Data interface connectors | RJ45 (single cable for data, power and sync) | |
| Power consumption | 2.5 W | |
| Supply voltage | 12-48 V | |
| Operating temperature | -20 60 degC | |
| IP rating | IP20 | |
| Weight | 130 g | |
| Dimensions | 71 x 62 x 28 mm | |

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Software support: DEWESoft X3, any standard EtherCAT master

Installation: Devices are daisy chained with a standard network cable. It is recommended that the cable is shielded (SFTP, CAT5e) and has a minimum 24 AWG wire thickness. The cable must have 4 wire pairs. The maximum distance node-to-node is 50 m.

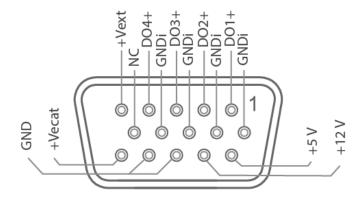
Power supply: Passive PoE power injector is neccessary for merging the EtherCAT signal and power into a single cable.



| Power supply voltage | Cable length device-to-device | Cable size | Max. number of devices from a single power supply |
|----------------------|-------------------------------|------------|---|
| 24 V | 1 m | AWG 24 | 6 |
| 24 V | 50 m | AWG 24 | 3 |
| 48 V | 1 m | AWG 24 | 12 |
| 48 V | 50 m | AWG 24 | 7 |

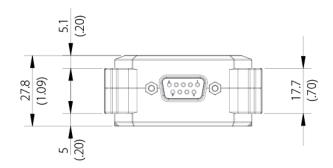
Note: this table applies if device consumes its typical power supply as specified in general specification. The max. nr. of devices from a single power supply can change if devices uses more/less power (depending primarily on sensor exciation and front end power supply load).

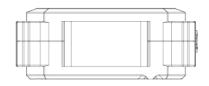
Front end connector pinout

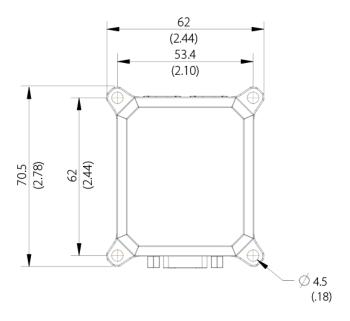


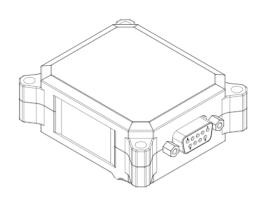
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Mechanical drawing









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