

# TRION-DI-48

## TRION-DI-48

- ▶ Isolated digital input module
- ▶ 48 isolated digital inputs (TRION-DI-48)
- ▶ 3 MS/s sampling rate



## Module specifications

| TRION-DI-48 specifications               |   |
|--|---|
| Input channels                           | 48 isolated digital inputs (TRION-DI-48)  |
| Input modes                              | Digital input (discrete)                  |
| Sampling rate                            | 3 MS/s                                    |
| Input signal characteristic              |   |
| – Compatibility                          | CMOS                                      |
| – Configuration                          | Isolated input                            |
| – Input low level                        | $U_{IN} < 1.8 \text{ V}$                  |
| – Input high level                       | $U_{IN} > 3.2 \text{ V}$                  |
| – Input high current @ 5 V $U_{IN}$      | $< 3.5 \text{ mA}$                        |
| – Input high current @ 30 V $U_{IN}$     | $< 7 \text{ mA}$                          |
| – Propagation delay                      | $< 160 \text{ ns}$                        |
| – Bandwidth                              | 3 MHz                                     |
| – Overvoltage protection                 | $35 \text{ V}_{DC} (65 \text{ V}_{PEAK})$ |
| – Isolation voltage (channel-to-channel) | $100 \text{ V}_{PEAK}$                    |
| – Isolation voltage (input-to-chassis)   | $250 \text{ V}_{PEAK}$                    |
| Input connector                          | 2 x 50 pin mini centronics                |
| Sensor power supply (per module)         | 5 V (600 mA), not isolated                |
| Typical power consumption                | 5 W                                       |
| Weight                                   | Approx. 190 g                             |

Tab. 74: Module specifications