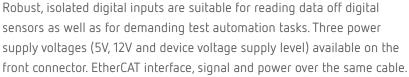






Robust isolated digital inputs with EtherCAT interface and DEWESoft software support.





## **FEATURES**

- 4 isolated TTL/CMOS digital inputs
- EtherCAT bus, daisy-chaining with single cable up to 50 m device-device
- DEWESoft X3 software support

## **APPLICATIONS**

- Digital sensor interface
- Digital inputs in control cabinets

## **DIGITAL INPUT SPECIFICATION**

|                               | Тур.                            | Unit |  |  |
|-------------------------------|---------------------------------|------|--|--|
| Number of input channels      | 4                               |      |  |  |
| Max. sample rate              | 20                              | kS/s |  |  |
| Input type                    | TTL / CMOS Voltage levels       |      |  |  |
| Input low level               | <1                              | V    |  |  |
| Input high level              | > 2                             | V    |  |  |
| Input high current @5 V Vin:  | 3                               | mA   |  |  |
| Input high current @30 V Vin: | 3                               | mA   |  |  |
| Overvoltage protection        | 30 (continuous) 65 (peak)       | V    |  |  |
| Isolation                     | channel-channel, channel-ground |      |  |  |
| Front connector               | DSUB15HD male                   |      |  |  |

### 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 +Vecat           | Vecat (device EtherCAT cable power voltage)                      |       |  |
| Max. output current +Vecat      | 200  | mA    |  |
| Note: Max. combined load on +5V | and +12V pins: 1.5 W reduced by the load already present on +Vir | n pin |  |





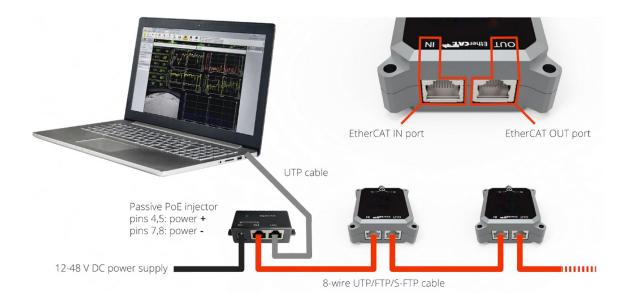
### GENERAL SPECIFICATION

| 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                              |
| Housing material          | Aluminium                                    |

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.

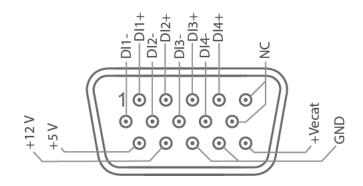


| Power supply voltage | Cable length device-to-device | Cable size | Max. number of devices from a single power supply |
|----------------------|-------------------------------|------------|---|
| 24 V                 | 1 m                           | AWG 24     | 6   |
| 24 V                 | 50 m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

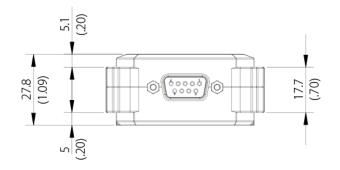
**Note:** This table applies if device consumes its typical power supply as specified in general specification. The max. nr. of devices from a single power supply can change if devices uses more/less power (depending primarily on sensor exciation and front end power supply load.

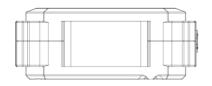


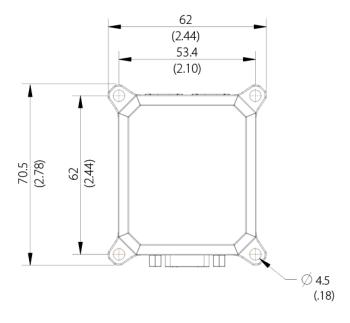
# FRONT END CONNECTOR PINOUT

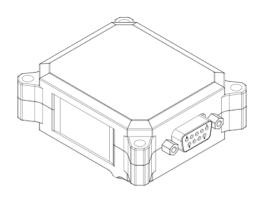


## MECHANICAL DRAWING









Page 3/3

The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.

Version | 11.20