

# **O32S**

## **32-line transistor output module on EtherCAT bus**

### **Electrical characteristics**

Supply voltage: +5 V +/- 5% 110 mA without encoder  
MTBF: 70 000 h 50 °C

### **Mechanical characteristics**

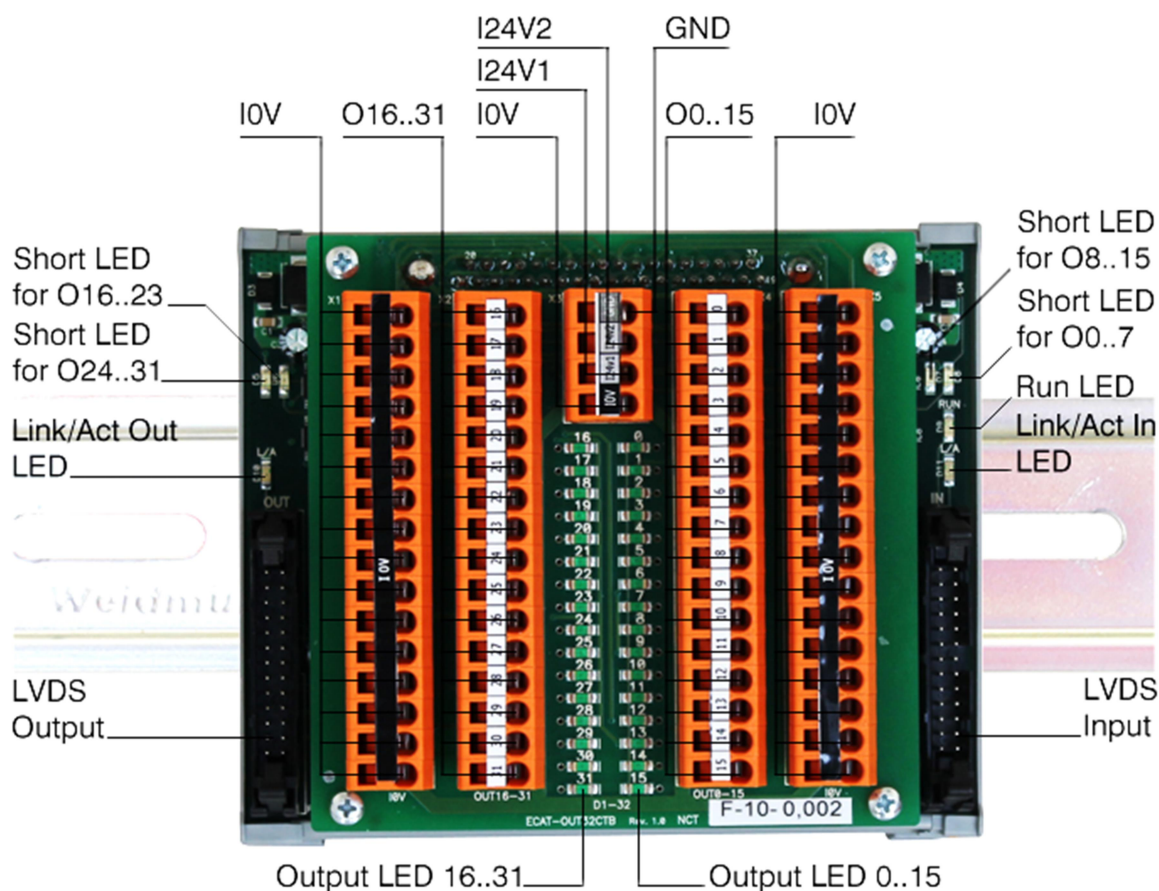
Dimensions: 128×108×66 mm  
Weight: kg

### **Environmental characteristics**

Operating temperature: +0 °C ... +50 °C  
Storage temperature: -24 °C ... +85 °C  
Operating relative humidity: max. 95% (no condensation)  
Storage relative humidity: max. 95% (no condensation)  
Sea-level altitude: -300 m ... +3000 m  
Shock resistance: 15 g / 0,33 ms  
Vibration: 1 g / 5 ... 2000 Hz

### **EMC**

EN 61000-4-2 (ESD)  
EN 61000-4-4 (burst)  
EN 61000-4-10 (voltage drop, interruption, change)



## Description

### 1. Digital outputs

The O32S module can issue 32 output signals (O0 ... O31) of nominal 24 VDC. Each line has galvanic isolation, and LED display (Output LED 0...31), too.

The function of the 4 red LEDs on the module is to indicate overload. The Short LED 0 indicates overload on lines O0...7, the Short LED 1 indicates overload on lines O8...15, the Short LED 2 indicates overload on lines O16...23, and the Short LED 3 indicates overload on lines O24...31.

The unit is rated for a maximum current of 0.5 A per line. The lines are overload protected.

The line groups O0...15 and O16...31 have separate power supply (I24V1 and I24V2).

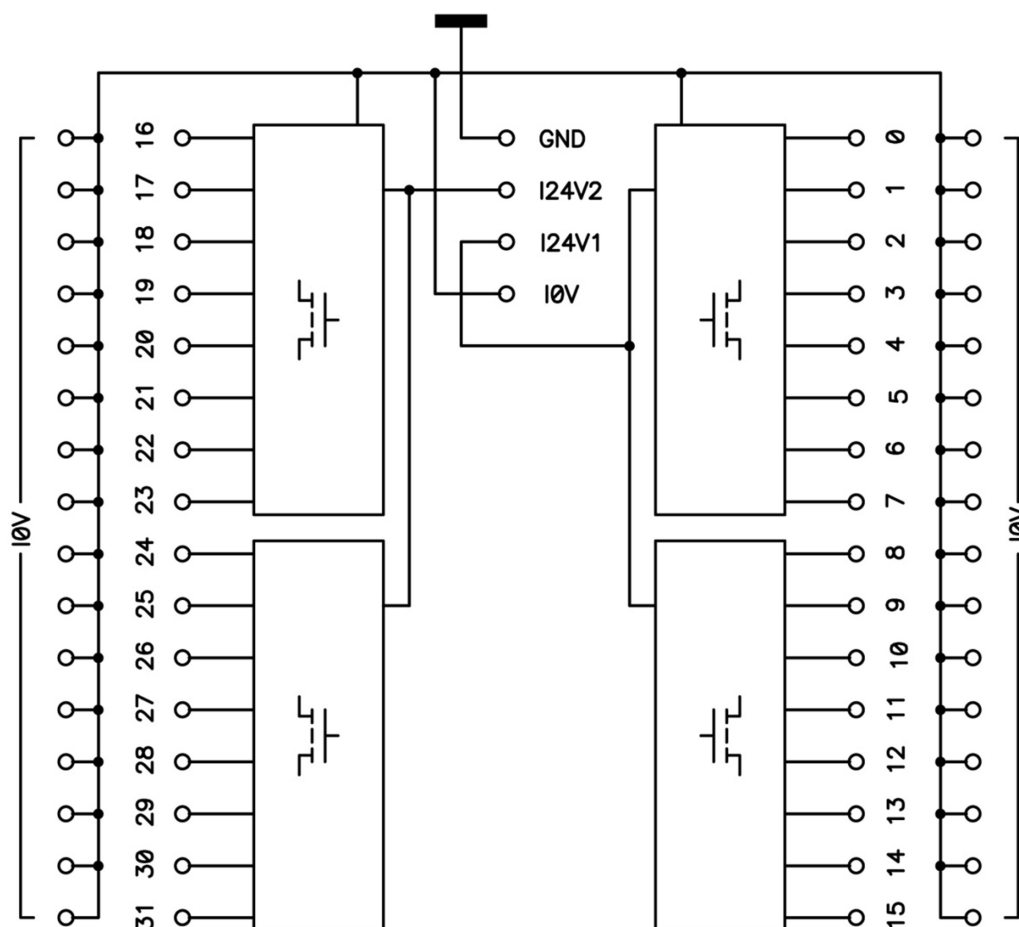
The values of the digital outputs can be written in via EtherCAT (LVDS) bus.

Low (0): 0 VDC

High (1): 24 VDC

The common negative potential of the inputs must be connected to the I0V.

The unit can be connected (grounded) to the frame at the GND point.



## 2. EtherCAT electronics

It is the EtherCAT-LVDS bus via which the module communicates with the control system. The module must be connected to the EPU unit or to a module connected to the EPU unit already, via the LVDS input. The LVDS output connector can be used to connect a subsequent module.

### The LEDs on the card and their functions

Link/Act In: the EtherCAT input port works

Link/Act Out: the EtherCAT output port works

Run: when the LED light is off: the unit is in INIT status

when the LED light is blinking: the unit is in PRE-OPERATIONAL status

when the LED light flashes: the unit is in SAFE-OPERATIONAL status

when the LED light is on: the unit is in OPERATIONAL status