



## ER1098-0001 | 8-channel digital input 24 V DC, negative switching

The ER1098-0001 EtherCAT Box with digital inputs acquires the binary control signals from the process level and transmits them, in an electrically isolated form, to the controller. The state of the signals is indicated by light emitting diodes. The signals are connected via M8 screw type connectors.

The sensors are supplied from the box supply voltage  $U_s$ . The auxiliary voltage  $U_p$  is not used in the input module, but may be connected in order to be relayed downstream.

The EtherCAT Box modules with zinc die-cast housing are ready for use in harsh industrial and process environments. With the fully sealed design and metal surfaces the ER series is ideal for applications requiring enhanced load capacity and protection against weld spatter, for example.

Technical data	ER1098-0001
Specification	negative switching "0": 11...30 V DC, "1": 0...7 V DC, typ. 2.5 mA input current
Number of inputs	8
Input connections	M8, screw type
Protocol	EtherCAT
Bus interface	2 x M8 socket, shielded, screw type
Nominal input voltage	24 V DC (-15 %/+20 %)
Input filter	10 $\mu$ s
"0" signal voltage	11...30 V
"1" signal voltage	0...7 V
Input current	typ. 3 mA
Distributed clocks	–
Sensor supply	from control voltage, max. 0.5 A total, short-circuit-proof
Power supply connection	feed: 1 x M8 male socket, 4-pin; downstream connection: 1 x M8 female socket, 4-pin
Bit width in the process image	8 inputs
Electrical isolation	control voltage/fieldbus: yes
Special features	negative switching
Operating/storage temperature	-25...+60 °C/-40...+85 °C
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 65/66/67 (conforms to EN 60529)/variable
Approvals	CE, UL in preparation

Related products	
<b>EP1098</b>	EtherCAT Box (industrial housing), 8 digital inputs, 24 V DC, filter 10 $\mu$ s, negative switching