



EL1262 | 2-channel digital input terminal with oversampling

The EL1262 digital input terminal acquires the fast binary control signals from the process level and transmits them, in an electrically isolated form, to the controller. The signals are oversampled with an adjustable, integer multiple (oversampling factor: n) of the bus cycle time (n microcycles per bus cycle). For each microcycle, the EtherCAT Terminal generates a process data block that is transferred collectively during the next bus cycle. The time base of the terminal can be synchronised precisely with other EtherCAT devices via distributed clocks. This procedure enables the temporal resolution of the digital input signals to be increased to n times the bus cycle time.

Technical data	EL1262 ES1262
Connection technology	4-wire
Specification	similar to EN 61131-2, type 3, "0": -3...5 V DC, "1": 11...30 V DC, typ. 3 mA input current
Number of inputs	2
Nominal voltage	24 V DC (-15 %/+20 %)
"0" signal voltage	-3...+5 V (EN 61131-2, type 3)
"1" signal voltage	11...30 V (EN 61131-2, type 3)
Input current	typ. 3 mA
Input filter	typ. < 1 μ s
Oversampling/multi-timestamping factor	n = integer multiple of the cycle time, 1...1000, see documentation
Precision of timestamp in the terminal	10 ns (+ input delay)
Distributed clock precision	<< 1 μ s
Sampling rate	max. 1 Msample/s
Distributed clocks	yes
Current consumption power contacts	typ. 20 mA + load
Current consumption E-bus	typ. 70 mA
Electrical isolation	500 V (E-bus/field potential)
Bit width in the process image	$n \times 2$ inputs + 64 bit CycleCounter/latch
Special features	oversampling
Weight	approx. 55 g
Operating/storage temperature	0...+55 °C/-25...+85 °C
Relative humidity	95 %, no condensation
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 20/variable
Pluggable wiring	for all ESxxxx terminals
Approvals	CE, UL, Ex

Related products

EL1262-0050

2-channel digital input terminal, 5 V DC, with oversampling

Further information

XFC

eXtreme Fast Control Technology