



EL1004 | 4-channel digital input terminal 24 V DC, 3 ms

The EL1004 digital input terminal acquires the binary control signals from the process level and transmits them, in an electrically isolated form, to the higher-level automation unit. Digital input terminals from the EL100x series have a 3 ms input filter. The EtherCAT Terminals indicate their state via an LED.

Technical data	EL1004, ES1004
Connection technology	2-wire
Specification	EN 61131-2, type 1/3
Number of inputs	4
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 (EN 61131-2, type 3)
Input filter	typ. 3.0 ms
Distributed clocks	–
Current consumption power contacts	typ. 2 mA + load
Current consumption E-bus	typ. 90 mA
Electrical isolation	500 V (E-bus/field potential)
Bit width in the process image	4 inputs
Configuration	no address or configuration setting
Special features	standard input terminals for 2-wire connection
Weight	approx. 50 g
Operating/storage temperature	-25...+60 °C/-40...+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/markings	CE, UL, ATEX, IECEx
Ex marking	II 3 G Ex nA IIC T4 Gc Ex nA IIC T4 Gc Ex tc IIIC T135 °C Dc

Ordering information	
EL1004	4-channel digital input terminal 24 V DC, filter 3.0 ms, 2-wire system
EL1004-0020	4-channel digital input terminal 24 V DC, functional isolation 2500 V, (Testing voltage E-bus/field potential, production test); CE, UL

Accessories	
Marking and coding	printed and unprinted contact labels, coding pins and sockets, slide-in label covers
ZK2000-2200-0xxx	M8, socket, straight, female, 3-pin – open end
ZK2020-3200-0xxx	M8, socket, straight, female, 4-pin – open end
ZK2000-6200-0xxx	M12, socket, straight, female, 4-pin, A-coded – open end
ZK2000-5200-0xxx	M12, socket, straight, female, 5-pin, A-coded – open end, 5-wire
Cordsets	cordsets and connectors