



## EL1024 | 4-channel digital input terminal 24 V DC for type 2 sensors

The EL1024 digital input terminal acquires the binary 24 V control signals and transmits them, in an electrically isolated form, to the higher-level automation system. The EtherCAT Terminal contains four channels that indicate their signal state by means of light emitting diodes. The input signal of the EL1024 corresponds to EN 61131-2, type 2. Additionally, the 4-channel EtherCAT Terminal enables the direct connection of four 2-wire sensors. Four +24 V connection points are provided.

Technical data	EL1024   ES1024
Connection technology	2-wire
Specification	EN 61131-2, type 2
Number of inputs	4
Nominal voltage	24 V DC (-15 %/+20 %)
"0" signal voltage	-3...+5 V (EN 61131-2, type 2)
"1" signal voltage	11...30 V (EN 61131-2, type 2)
Input current	typ. 6 mA (EN 61131-2, type 2)
Input filter	typ. 3.0 ms
Distributed clocks	–
Current consumption power contacts	typ. 30 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	type 2
Weight	approx. 50 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 ESxxx terminals
Approvals	CE, UL, Ex