



EL1872 | 16-channel digital input terminal 24 V DC, type 3, flat-ribbon cable connection

The EL1872 digital input terminal offers a very compact design with its 16 channels. A 20-pin connector enables the secure connection of plug connectors using insulation displacement contact, as is usual for ribbon cables and special round cables. This significantly simplifies the wiring of many channels. The input characteristic conforms to the type 3 specification and guarantees minimum power dissipation. 16 LEDs display the logical signal states of the inputs.

Technical data	EL1872
Connection technology	flat-ribbon cable
Specification	EN 61131-2, type 1/3
Number of inputs	16
Nominal voltage	24 V DC (-15 %/+20 %)
"0" signal voltage	-3...+5 V (EN 61131-2, type 1/3)
"1" signal voltage	11...30 V (EN 61131-2, type 3)
Input current	typ. 3 mA (EN 61131-2, type 3)
Input filter	typ. 10 μ s
Distributed clocks	–
Current consumption power contacts	4 mA from the 24 V supply (no power contacts)
Current consumption E-bus	typ. 100 mA
Electrical isolation	500 V (E-bus/field potential)
Bit width in the process image	16 inputs
Configuration	no address or configuration setting
Special features	also available as ground switching
Weight	approx. 60 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
Approvals	CE, UL, Ex

Related products	
EL1862	16-channel digital input terminal 24 V DC, filter 3.0 ms, flat-ribbon cable connection, type 3
EL1862-0010	16-channel digital input 24 V DC, 3.0 ms, flat-ribbon cable connection, switching to ground potential
EL1872-0010	16-channel digital input terminal 24 V DC, filter 10 μ s, flat-ribbon cable connection, type 3