Top view   Contact assembly

EL1852 | 8-channel digital input + 8-channel digital output 24 V DC, flat-ribbon cable connection

The digital EL1852 EtherCAT Terminal combines eight digital inputs and eight digital outputs in one device. The inputs have a filter of 3.0 ms. The outputs process load currents up to 0.5 A, are short-circuit proof and protected against polarity reversal. The signal states are displayed by LEDs. The EL1852 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.

Technical data	EL1852
Connection technology	flat-ribbon cable
Specification	EN 61131-2, type 1/3
Number of channels	8 inputs + 8 outputs
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. 3.0 ms
Distributed clocks	–
Load type	ohmic, inductive, lamp load
Max. output current	0.5 A (per channel)
Reverse voltage protection	yes
Breaking energy	< 150 mJ/channel
Switching times	typ. T_{ON}: 60 µs, T_{OFF}: 300 µs
Current consumption power contacts	20 mA from the 24 V supply (no power contacts)
Current consumption E-bus	typ. 100 mA
Electrical isolation	500 V (E-bus/field potential)
Special features	combi EtherCAT Terminal, 8 x output 24 V DC, max. output current 0.5 A, load type: ohmic, inductive, lamp load, reverse voltage protection
Weight	approx. 65 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