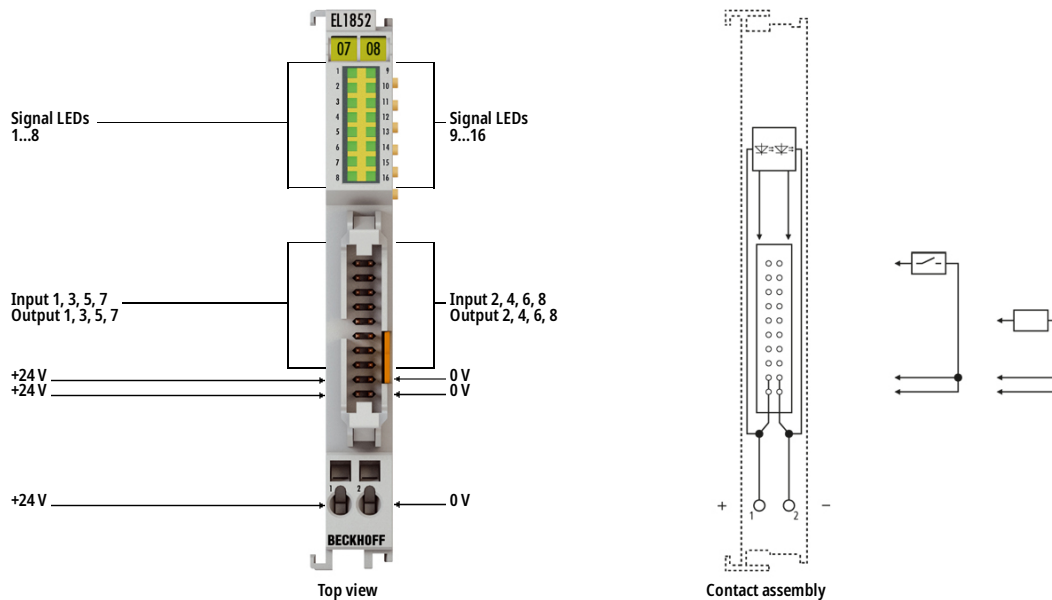
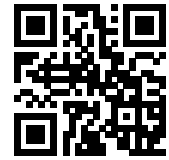


# EL1852 | EtherCAT Terminal, 8-channel digital input + 8-channel digital output, 24 V DC, 3 ms, 0.5 A, flat-ribbon cable



**i Product status:** Regular delivery

The digital EL1852 EtherCAT Terminal combines eight digital inputs and eight digital outputs on a single device. The signal state of the channels is indicated by LEDs. The EL1852 offers a high packing density with 16 channels. A 20-pin contact strip 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.

Special features:

- compact design through the combination of inputs and outputs in one terminal
- no bouncing due to mechanical switches thanks to 3 ms input filter
- short-circuit proof outputs protected against reverse polarity with output current up to 0.5 A
- direct connection of connectors with insulation displacement contacts

## Product information

### Technical Data

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 %)

Rated current	max. 1 A per connection pin
"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. TON: 60 µs, typ. TOFF: 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, $I_{\max} = 0.5$ 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. rating/installation pos.	IP20/variable
Approvals/markings	CE, UL

<b>Housing data</b>	<b>EL-12-FRC</b>
Design form	compact terminal housing with signal LEDs
Material	polycarbonate
Dimensions (W x H x D)	12 mm x 100 mm x 73 mm
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock
Side by side mounting by means of	double slot and key connection
Marking	labeling of the BZxxx series
Wiring	flat-ribbon cable connection
Connection cross-section	common flat-ribbon cables, AWG 28, spacing 1.27 mm
Connection cross-section AWG	AWG 28
Stripping length	–

\*s: solid wire; st: stranded wire; f: with ferrule