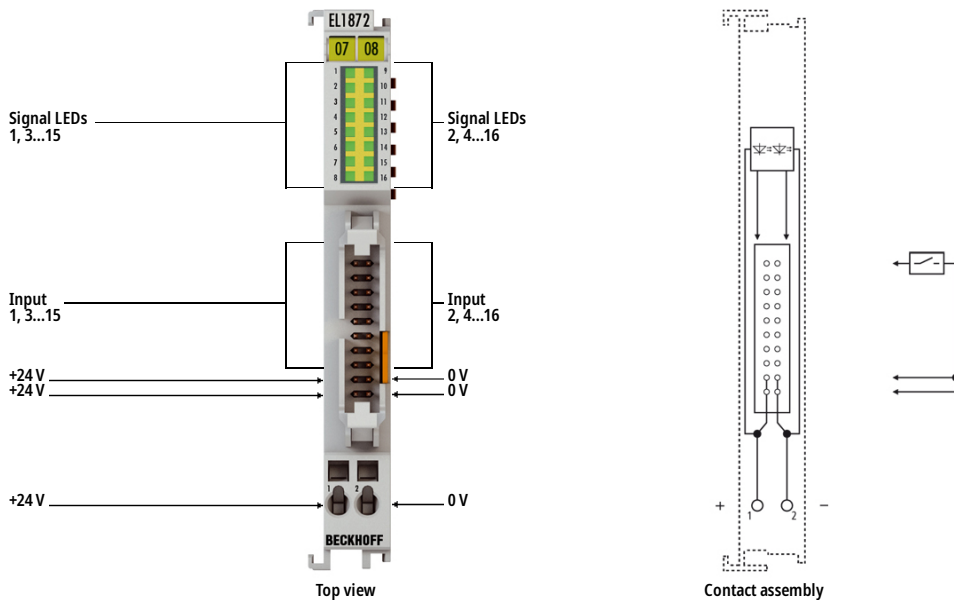
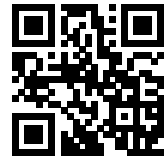


# EL1872 | EtherCAT Terminal, 16-channel digital input, 24 V DC, 10 $\mu$ s, flat-ribbon cable



**i Product status:** Regular delivery

The EL1872 digital input terminal offers 16 channels in a very compact design. 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. The signal states of the channels are indicated by LEDs. The power contacts are connected through.

Special features:

- input specification type 1/3
- low delay due to fast 10  $\mu$ s input filter
- usable, for example, for inductive or capacitive sensors
- direct connection of connectors with insulation displacement contacts

## Product information

### Technical Data

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 %)
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. 10 µs
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. rating/installation pos.	IP20/variable
Approvals/markings	CE, UL, ATEX
Ex marking	II 3 G Ex nA IIC T4 Gc

<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