

EL1014 | EtherCAT Terminal, 4-channel digital input, 24 V DC, 10 μ s

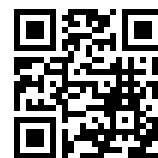
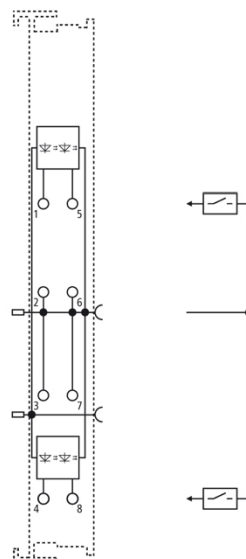
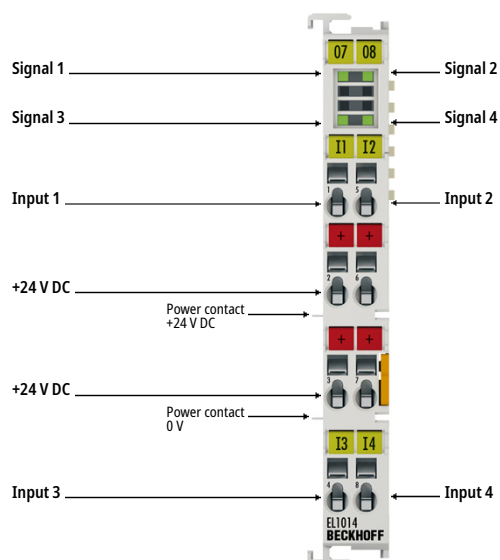


Image similar, may contain optional accessories



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i **Product status:** regular delivery

The EL1014 digital input terminal acquires the binary 24 V control signals from the process level and transmits them, in an electrically isolated form, to the higher-level automation unit. The EtherCAT Terminal has four channels that indicate their signal state via light emitting diodes.

Special features:

- input specification type 1/3
- low delay due to fast 10 μ s input filter
- usable, for example, for inductive or capacitive sensors
- direct connection of four 2-wire sensors via additional +24 V connection points

Product information

Technical data

Technical data	EL1014
Connection technology	2-wire
Specification	EN 61131-2, type 1/3
Number of inputs	4

Technical data	EL1014
Nominal voltage	24 V DC (-15%/+20%)
Signal voltage "0"	-3...+5 V (EN 61131-2, type 3)
Signal voltage "1"	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	typ. 2 mA + load
Current consumption E-bus	typ. 90 mA
Electrical isolation	500 V (E-bus/field potential)
Configuration	no address or configuration setting
Special features	standard input terminals for 2-wire connection
Weight	approx. 50 g
Operating temperature	-25...+60°C
Storage temperature	-40...+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
Pluggable wiring level	for all ESxxx terminals
Approvals/markings	CE, CCC, UL, ATEX, IECEx, DNV, cFMus
Ex marking	ATEX: II 3G Ex ec IIC T4 Gc IECEx: Ex ec IIC T4 Gc cFMus: Class I, Division 2, Groups A, B, C, D Class I, Zone 2, AEx ec IIC T4 Gc

Housing data	EL-12-8pin	ES-12-8pin
Design form	compact terminal housing with signal LEDs	terminal housing with pluggable wiring level
Material	polycarbonate	
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	solid conductor (s), flexible conductor (st) and ferrule (f): spring actuation by screwdriver	
Connection cross-section	s*: 0.08...2.5 mm ² , st*: 0.08...2.5 mm ² , f*: 0.14...1.5 mm ²	s*: 0.08...1.5 mm ² , st*: 0.08...1.5 mm ² , f*: 0.14...1.5 mm ²

Housing data	EL-12-8pin	ES-12-8pin
Connection cross-section AWG	s*: AWG28...14, st*: AWG28...14, f*: AWG26...16	s*: AWG28...16, st*: AWG28...16, f*: AWG26...16
Stripping length	8...9 mm	9...10 mm
Current load power contacts	I _{max} : 10 A	
Dimensions (W x H x D)	12 mm x 100 mm x 68 mm	

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

Ordering information

Ordering information	
EL1014	EtherCAT Terminal, 4-channel digital input, 24 V DC, 10 µs
ES1014	EtherCAT Terminal, 4-channel digital input, 24 V DC, 10 µs, pluggable wiring level