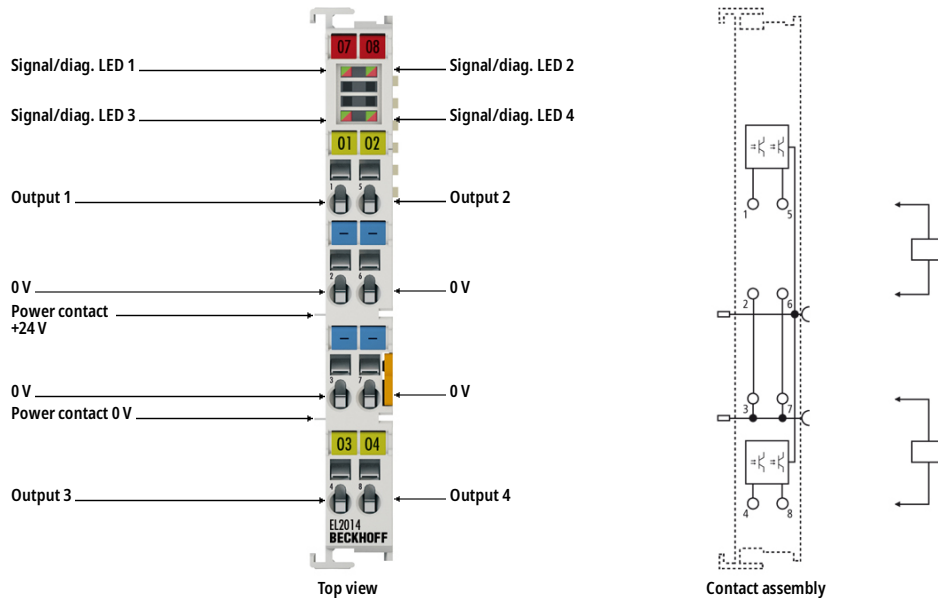
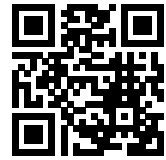


EL2014 | EtherCAT Terminal, 4-channel digital output, 24 V DC, 0.5 A, with diagnostics



i Product status: Regular delivery

The EL2014 digital output terminal connects the binary 24 V DC control signals from the automation device on to the actuators at the process level with electrical isolation. The EtherCAT Terminal contains four channels that indicate its signal state by means of light emitting diodes. The integrated diagnostics can be evaluated in the controller and is indicated by the LEDs. Maintenance of the application is simplified by the diagnostics. The power contacts are connected through. The reference potential of the outputs is the 0 V DC power contact. The outputs are supplied via the 24 V DC power contact.

Special features:

- Connection of different load types possible (ohmic, inductive, lamp load)
- Max. output current 0.5 A per channel
- Overload and short-circuit proof outputs and reverse polarity protection
- Integrated diagnostics option, including
 - Short-circuit detection per channel
 - Line break detection per channel
 - Overcurrent per channel
 - Overtemperature
 - Voltage loss and undervoltage
- Parameterizable output behavior in case of bus error (safe state)

Product information

Technical Data

Technical data

EL2014, ES2014

Connection technology	2-wire
Number of outputs	4
Nominal voltage	24 V DC (-15 %/+20 %)
Load type	ohmic, inductive, lamp load
Distributed clocks	–
Max. output current	0.5 A (short-circuit proof) per channel
Short-circuit current	typ. < 1 A
Reverse voltage protection	yes
Breaking energy	< 150 mJ/channel
Switching times	typ. TON: 50 µs, typ. TOFF: 100 µs
Current consumption E-bus	typ. 60 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 15 mA + load
Bit width in the process image	4 bit output, 20 bit diagnostics
Configuration	via TwinCAT System Manager
Special features	diagnostics via process data and LED: overtemperature, PowerFail, short circuit (per channel)
Weight	approx. 70 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
Pluggable wiring	for all ESxxx terminals
Approvals/markings	CE, ATEX, IECEx, cFMus
Ex marking	ATEX: II 3 G Ex nA IIC T4 Gc IECEX: Ex nA IIC T4 Gc Ex tc IIIC T135 °C Dc cFMus: Class I, Division 2, Groups A, B, C, D Class I, Zone 2, AEx ec IIC T4 Gc

Housing data	EL-12-8pin
Design form	compact terminal housing with signal LEDs
Material	polycarbonate
Dimensions (W x H x D)	12 mm x 100 mm x 68 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	solid conductor (e), flexible conductor (f) and ferrule (a): 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
Connection cross-section AWG	s*: AWG 28...14, st*: AWG 28...14, f*: AWG 26...16
Stripping length	8...9 mm
Current load power contacts	I _{max} : 10 A

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