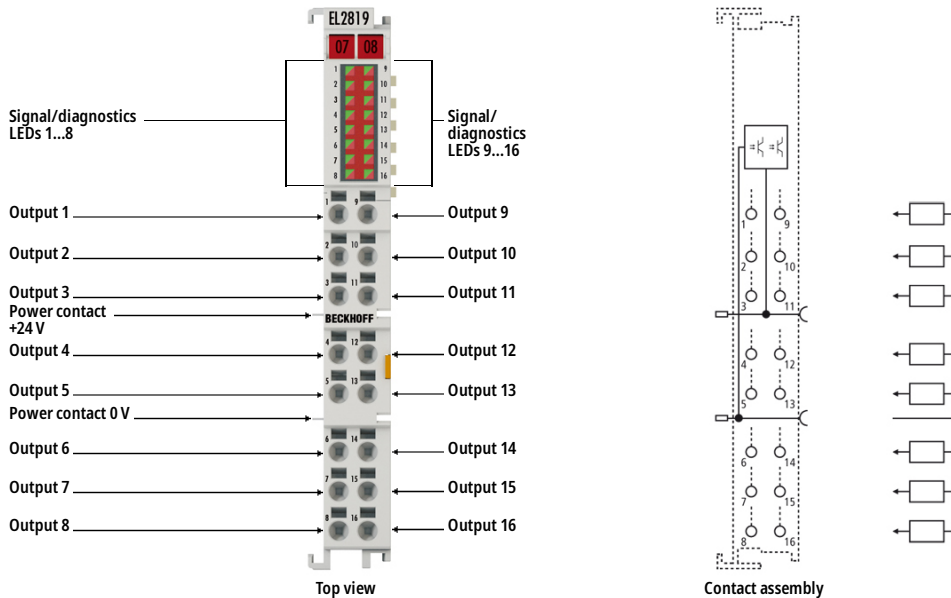
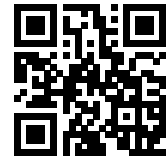


EL2819 | EtherCAT Terminal, 16-channel digital output, 24 V DC, 0.5 A, with diagnostics



i Product status: Regular delivery

The EL2819 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 has 16 channels, whose signal states are indicated by LEDs. 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 ground for the outputs is the 0 V DC power contact. The outputs are electrically isolated from the fieldbus side.

Special features:

- Connection of different load types possible (ohmic, inductive, lamp load)
- Max. output current 0.5 A per channel
- Short-circuit-proof outputs and reverse polarity protection
- Integrated diagnostics option, including
 - Short-circuit detection per channel
 - Wire breakage per channel
 - Overcurrent per channel
 - Overtemperature
 - Voltage loss and undervoltage
- Parameterizable output behavior in case of bus error (safe state)
- Tool-free connection by direct plug-in technology for solid wire conductors

Product information

Technical Data

Technical data

EL2819

Connection technology	1-wire
Number of outputs	16
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
Output stage	push (high-side switch)
Short-circuit current	typ. < 1 A
Reverse voltage protection	yes
Breaking energy	< 150 mJ/channel
Current consumption E-bus	typ. 90 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 50 mA + load
Bit width in the process image	16 bit output and diagnostics
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/see documentation
Approvals/markings	CE, UL, ATEX, DNV GL
Ex marking	II 3 G Ex nA IIC T4 Gc

Housing data	EL-12-16pin
Design form	HD (High Density) 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 conductors (e): direct plug-in technique; fine-stranded conductors (f) and ferrule (a): spring actuation by screwdriver
Connection cross-section	s*: 0.08...1.5 mm ² , st*: 0.25...1.5 mm ² , f*: 0.14...0.75 mm ²

Connection cross-section AWG	s*: AWG 28...16, st*: AWG 22...16, f*: AWG 26...19
Stripping length	8...9 mm
Current load power contacts	I _{max} : 10 A

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