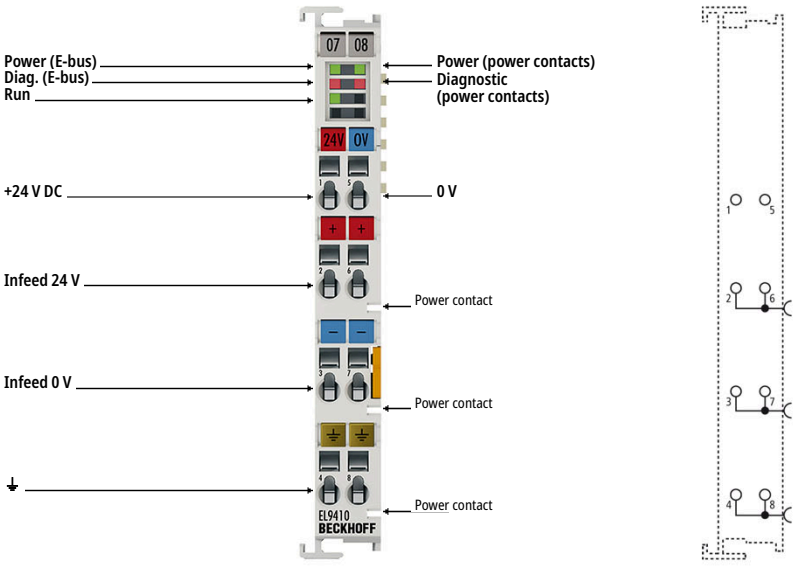
EL9410 | EtherCAT Terminal, power supply for E-bus, 24 V DC, 2 A, with diagnostics

Image similar, may contain optional accessories



EL9410 | EtherCAT Terminal, power supply for E-bus, 24 V DC, 2 A, with diagnostics

Product status: regular delivery

The EL9410 power supply terminal is used to refresh the E-bus. Data is exchanged between the coupler and the EtherCAT Terminal over the E-bus. Each terminal draws a certain amount of current from the E-bus (see “current consumption E-bus” in the technical data). This current is fed into the E-bus by the relevant coupler’s power supply unit. In configurations with a large number of terminals it is possible to use the EL9410 in order to supply an extra 2 A to the E-bus. In addition to the E-bus refresh, a 24 V DC supply of up to 10 A can be provided for the power contacts. The EL9410 has a diagnostic function which is displayed by LED and on the process image.

Product information

Technical data

Technical data	EL9410
Technology	power supply terminal
Short-circuit proof	yes
Input voltage	24 V DC (-15%/+20%)
Input current	typ. 70 mA + (E-bus/4)
Output voltage	5 V for E-bus supply
Output current	2 A

Technical data	EL9410
Current consumption E-bus	–
Electrical isolation	500 V (E-bus/field potential)
Power contacts	max. 24 V DC/max. 10 A
Diagnostics in the process image	yes
Special features	standard EL supply
Weight	approx. 65 g
Operating temperature	-25…+55°C
Storage temperature	-40…+85°C
Relative humidity	95%, no condensation
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
Pluggable wiring level	for all ESxxxx terminals
Protect. rating/installation pos.	IP20/variable
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 BZxxxx series	
Wiring	solid conductor (s), flexible conductor (st) and ferrule (f): spring actuation by screwdriver	
Connection cross-section	s*: 0.08…2.5 mm², st*: 0.08…2.5 mm², f*: 0.14…1.5 mm²	s*: 0.08…1.5 mm², st*: 0.08…1.5 mm², f*: 0.14…1.5 mm²
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	
EL9410	EtherCAT Terminal, power supply for E-bus, 24 V DC, 2 A, with diagnostics
ES9410	EtherCAT Terminal, power supply for E-bus, 24 V DC, 2 A, with diagnostics, pluggable wiring level

Material Compliance

Material compliance	EL9410
REACH SVHC	no
POP	compliant
RoHS	compliant with exemption
RoHS exemption	7c-I: Lead-containing electrical and electronic components in glass and ceramic materials, excluding dielectric ceramics in capacitors
China-RoHS	www.beckhoff.com/china-rohs-io
CA Prop65	www.beckhoff.com/prop65
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