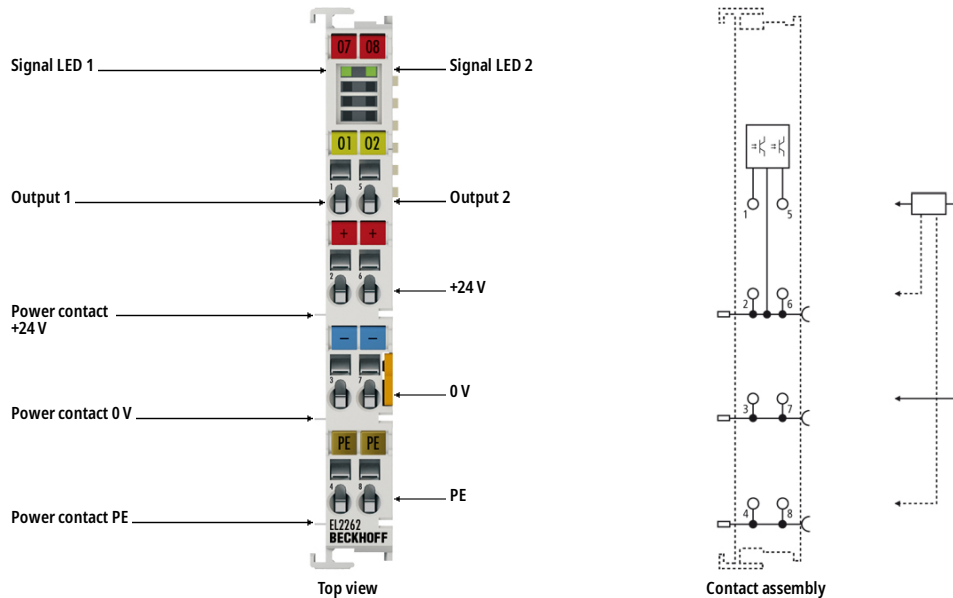
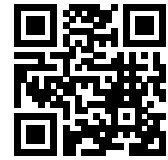


EL2262 | EtherCAT Terminal, 2-channel digital output, 24 V DC, 0.5 A, oversampling



i Product status: Regular delivery

The EL2262 digital output terminal connects the binary control output signals at the process level with electrical isolation. The outputs are controlled with an adjustable integral multiple (oversampling factor: n) of the bus cycle frequency (n microcycles per bus cycle). For each bus cycle, the EtherCAT Terminal receives a process data block that is output consecutively. The timebase of the terminal can be synchronized precisely with other EtherCAT devices via distributed clocks. An output pattern with a significantly higher pulse sequence than the bus cycle time is thus output precisely with the system-wide timebase. This procedure enables the temporal resolution of the digital output signals to be increased to n times the bus cycle time. The maximum output rate is 1 Msamples/s.

Special features:

- push-pull output
- connection of different load types possible (ohmic, inductive, lamp load)
- synchronized operation through distributed clocks XFC technology possible
- multiple sampling of a process data through oversampling

Product information

Technical Data

Technical data	EL2262, ES2262
Connection technology	4-wire
Number of outputs	2
Nominal voltage	24 V DC (-15 %/+20 %)

Load type	ohmic, inductive, lamp load
Oversampling factor	n = integer multiple of the cycle time, 1...1000
Distributed clocks	yes
Distributed clock precision	<< 1 μ s
Max. output current	0.5 A (short-circuit proof in push operation) per channel
Output stage	push-pull
Short-circuit current	typ. < 1.5 A
Reverse voltage protection	yes
Current limitation	typ. 4 A/150 μ s
Breaking energy	< 150 mJ/channel
Switching times	typ. TON: < 1 μ s, typ. TOFF: < 1 μ s
Output rate	max. 1 Msample/s, min. cycle 1 μ s
Current consumption E-bus	typ. 70 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 35 mA + load
Bit width in the process image	n x 2 outputs + 32 bit CycleCounter + 32 bit StartTimeNextOutput
Configuration	via TwinCAT System Manager
Special features	up to 1000 x oversampling, max. 1 Msample/s, min. output cycle 1 μ s
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
Pluggable wiring	for all ESxxx terminals
Approvals/markings	CE, UL, ATEX
Ex marking	II 3 G Ex nA 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	
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	s*: 0.08...1.5 mm ² , st*: 0.08...1.5 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	s*: AWG 28...16, st*: AWG 28...16, f*: AWG 26...16
Stripping length	8...9 mm	9...10 mm
Current load power contacts	I _{max} : 10 A	

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

Ordering Information

Ordering information	
EL2262	EtherCAT Terminal, 2-channel digital output, 24 V DC, 0.5 A, oversampling
ES2262	EtherCAT Terminal, 2-channel digital output, 24 V DC, 0.5 A, oversampling, pluggable wiring