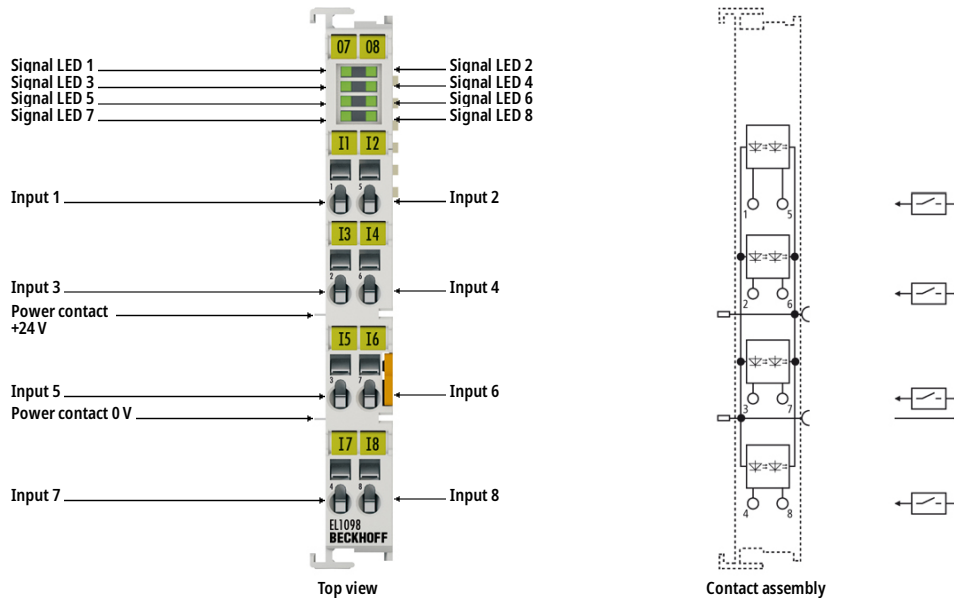




EL1098 | EtherCAT Terminal, 8-channel digital input, 24 V DC, 10 μ s, ground switching



i Product status: Regular delivery

The EL1098 digital input terminal acquires the binary control signals from the process level and transmits them, in an electrically isolated form, to the higher-level automation unit. Each EtherCAT Terminal has eight channels that indicate their signal state via light emitting diodes.

Special features:

- ground switching
- low delay due to fast 10 μ s input filter
- usable, for example, for inductive or capacitive sensors
- direct connection of multi-channel sensors using 1-wire connection technique

Product information

Technical Data

Technical data	EL1098, ES1098
Connection technology	1-wire
Specification	ground switching "0": 18...30 V DC, "1": 0...7 V DC, typ. 3 mA input current
Number of inputs	8
Nominal voltage	24 V DC (-15 %/+20 %)
"0" signal voltage	18...30 V
"1" signal voltage	0...7 V

Input current	typ. 3.0 mA
Input filter	typ. 10 μ s
Distributed clocks	–
Current consumption power contacts	typ. 25 mA
Current consumption E-bus	typ. 90 mA
Electrical isolation	500 V (E-bus/field potential)
Configuration	no address or configuration setting
Weight	approx. 50 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
Pluggable wiring	for all ESxxx terminals
Approvals/markings	CE, UL, ATEX, DNV GL
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

EL1098	EtherCAT Terminal, 8-channel digital input, 24 V DC, 10 μ s, ground switching
ES1098	EtherCAT Terminal, 8-channel digital input, 24 V DC, 10 μ s, ground switching, pluggable wiring
