Signal LED 1
Signal LED 3
Signal LED 5
Signal LED 7

Signal LED 2
Signal LED 4
Signal LED 6
Signal LED 8

Input 1
Input 2
Input 3
Input 4
Power contact +24 V
Input 5
Input 6
Power contact 0 V
Input 7
Input 8

25 g

Top view   Contact assembly

EL1098 | 8-channel digital input terminal 24 V DC, ground switching

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. The 8-channel EL1098 is suitable for multi-channel sensors with single-wire connections. The EtherCAT Terminal indicates its signal state by means of light emitting diodes.

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 µs
Distributed clocks	–
Current consumption power contacts	typ. 25 mA
Current consumption E-bus	typ. 90 mA
Electrical isolation	500 V (E-bus/field potential)
Bit width in the process image	8 inputs
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. class/installation pos.	IP 20/see documentation
Pluggable wiring	for all ESxxxx terminals
Approvals/markings	CE, UL, ATEX
Ex marking	II 3 G Ex nA IIC T4 Gc