

2.4.2 EL1088, EL1098 - LEDs and connection

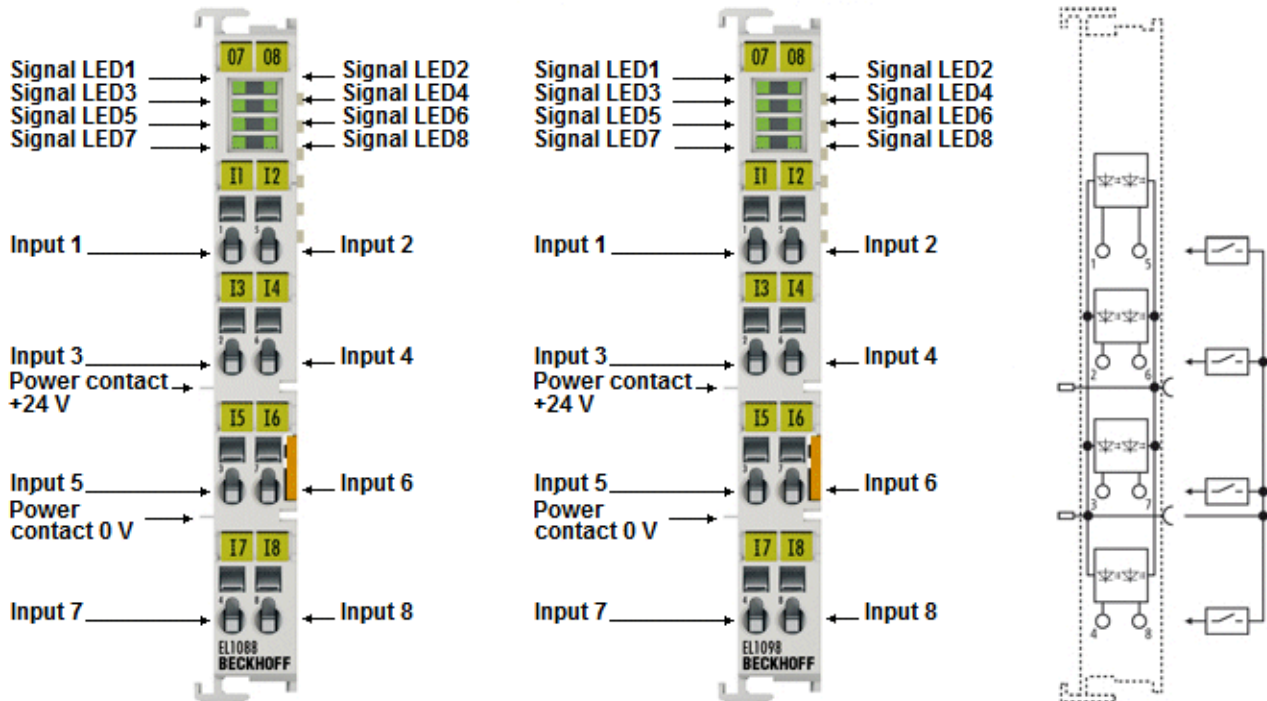


Fig. 23: EL1088, EL1098

EL1088, EL1098 - LEDs

LED	Color	Meaning
INPUT 1- 8	green	off Signal voltage "0" (18 V ... 30 V)
		on Signal voltage "1" (0 V ... 7 V)

EL1088, EL1098 - Connection

Terminal point		Description
Name	No.	
Input 1	1	Input 1
Input 3	2	Input 3
Input 5	3	Input 5
Input 7	4	Input 7
Input 2	5	Input 2
Input 4	6	Input 4
Input 6	7	Input 6
Input 8	8	Input 8

2.4.3 EL1084, EL1088, EL1094, EL1098 - Technical data

Technical data	EL1084	EL1088	EL1094	EL1098
Number of inputs	4	8	4	8
Nominal voltage of the inputs	24 V _{DC} (-15% / +20%)			
Signal voltage "0"	18 V ... 30 V			
Signal voltage "1"	0 V ... 7 V			
Input filter	3 ms	3 ms	10 µs	10 µs
Input current	typ. 3 mA			
Current consumption power contacts	typ. 20 mA	typ. 25 mA	typ. 20 mA	typ. 25 mA
Current consumption via E-bus	typ. 90 mA			
Electrical isolation	500 V (E-bus/field voltage)			
Bit width in the process image	4 input bits	8 input bits	4 input bits	8 input bits
Configuration	no address setting, configuration via TwinCAT System Manager			
Weight	approx. 55 g			
Permissible ambient temperature range during operation	0°C ... +55°C	0°C ... +55°C (aligned in horizontal installation position) 0°C ... +45°C (all other installation positions, see Note [► 64])	0°C ... +55°C	0°C ... +55°C (aligned in horizontal installation position) 0°C ... +45°C (all other installation positions, see Note [► 64])
Permissible ambient temperature range during storage	-25°C ... +85°C			
Permissible relative humidity	95%, no condensation			
Dimensions (W x H x D)	approx. 15 mm x 100 mm x 70 mm (width aligned: 12 mm)			
Mounting [► 52]	on 35 mm mounting rail conforms to EN 60715			
Enhanced mechanical load capacity	yes, see also Installation instructions for terminals with increased mechanical load capacity [► 66]			
Vibration/shock resistance	according to EN 60068-2-6/EN 60068-2-27			
EMC resistance burst/ESD	conforms to EN 61000-6-2 / EN 61000-6-4			
Protection class	IP20			
Installation position	variable	see note [► 64]	variable	see note [► 64]
Approvals/markings*	CE, UKCA, EAC, cULus [► 59] , ATEX [► 53] , IECEX [► 55] , DNV GL			

*) Real applicable approvals/markings see type plate on the side (product marking).

Ex markings

Standard	Marking
ATEX	II 3 G Ex nA IIC T4 Gc
IECEX	Ex nA IIC T4 Gc