

BECKHOFF New Automation Technology

Documentation | EN

EL20xx, EL2124

Digital Output Terminals



3.1.1 EL2002, EL2004, EL2008 - Technical data

Technical data	EL2002	EL2004	EL2008
Number of outputs	2	4	8
Non-reactive outputs	-	yes (see notice [▶ 18])	yes (see notice [▶ 18])
Load type	ohmic, inductive, lamp load		
Nominal output voltage	24 V _{DC} (-15% / +20%)		
Switching times	T _{ON} : 60 µs typ.; T _{OFF} : 300 µs typ.		
Output current per channel	maximum 0.5 A (short-circuit proof)		
Switch-off energy (inductive)	max. 150 mJ/channel		
Current consumption from load voltage (power contacts)	typ. 15 mA		
Supply voltage for electronic	via the E-Bus		
Current consumption via E-bus	typ. 100 mA	typ. 100 mA	typ. 110 mA
Electrical isolation	500 V (E-bus/field voltage)		
Bit width in the process image	2 output bits	4 output bits	8 output bits
Configuration	no address setting, configuration via TwinCAT System Manager		
Weight	approx. 55 g		
Permissible ambient temperature range during operation	-25°C ... +60°C (extended temperature range)		Aligned in horizontal installation position: -25°C ... +60°C (extended temperature range) All other installation positions, see note [▶ 95]: -25°C ... +45°C
Permissible ambient temperature range during storage	-40°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 [▶ 82]	on 35 mm mounting rail conforms to EN 60715		
Vibration/shock resistance	according to EN 60068-2-6/EN 60068-2-27, see also Installation instructions for terminals with increased mechanical load capacity [▶ 93]		
EMC resistance burst/ESD	conforms to EN 61000-6-2 / EN 61000-6-4		
Protection class	IP20		
Installation position	variable	variable	see note [▶ 95]
Marking / Approval	CE, UKCA, EAC cULus [▶ 89] ATEX [▶ 84] DNV GL		CE, UKCA, EAC cULus [▶ 89] ATEX [▶ 84] IECEX [▶ 85] cFMus [▶ 87] DNV GL

Ex markings

Standard	Marking
ATEX	II 3 G Ex nA IIC T4 Gc II 3 D Ex tc IIIC T135 °C Dc
IECEX	Ex nA IIC T4 Gc Ex tc IIIC T135 °C Dc
cFMus	Class I, Division 2, Groups A, B, C, D Class I, Zone 2, AEx/Ex ec IIC T4 Gc