



## EL2252 | 2-channel digital output terminal with timestamp, tri-state

The EL2252 digital output terminal connects the binary control output signals at the process level with electrical isolation. The outputs are switched precisely synchronised with the transferred timestamp, which has a resolution of 10 ns. This technology enables output switching times to be specified precisely across the system. The distributed clocks are used for reference. In conjunction with the EL1252 (digital input terminal with timestamp), the EL2252 enables responses with equidistant time intervals, largely independent of the bus cycle time. Each output can be switched to high resistance individually.

Technical data	EL2252   ES2252
Connection technology	4-wire
Number of outputs	2
Nominal voltage	24 V DC (-15 %/+20 %)
Rated load voltage	24 V DC (-15 %/+20 %)
Load type	ohmic, inductive, lamp load
Resolution timestamp	1 ns
Precision of timestamp in the terminal	10 ns
Distributed clocks	yes
Distributed clock precision	<< 1 $\mu$ s
Output delay through 24 V power section	typ. < 1 $\mu$ s
Max. output current	0.5 A (short-circuit proof) per channel
Short circuit current	typ. < 1.5 A
Reverse voltage protection	yes
Current limitation	typ. 1.5 A
Breaking energy	< 150 mJ/channel
Switching times	typ. T <sub>ON</sub> : < 1 $\mu$ s, typ. T <sub>OFF</sub> : < 1 $\mu$ s
Output stage	push-pull
Current consumption E-bus	typ. 130 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 30 mA + load
Bit width in the process image	8 bit output (ch. 1 + ch. 2), 9 byte timestamp
Special features	Timestamping, outputs can be connected in high-resistance mode, short-circuit proof.
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. class/installation pos.	IP 20/variable
Pluggable wiring	for all ESxxxx terminals
Approvals	CE, UL, Ex

Further information

XFC

eXtreme Fast Control Technology