



## ELX9410 | Power supply terminal for E-bus refresh, with diagnostics



The ELX9410 power supply terminal is used to refresh the E-bus. Data is exchanged between EtherCAT coupler and EtherCAT Terminals over the E-bus. Each terminal draws a certain amount of current from the E-bus (see "current consumption E-bus" in the technical data). This current is fed into the E-bus by the corresponding coupler's power supply unit. In configurations with a large number of terminals it is possible to use the ELX9410 in order to supply an extra 1 A to the E-bus. The ELX9410 has a diagnostics function, which is indicated by LEDs and on the process image.

In addition, the ELX9410 is equipped with a fin that can be used to check whether the separation distance stipulated by IEC 60079-11 is observed. This enables the installation of an additional ELX9560 power supply terminal in order to continue an ELX terminal strand on the same DIN rail. Moreover, two ELX9410 terminals can be installed in direct succession to reach the required separation distance for continuing the same terminal strand with standard EtherCAT Terminals. In this way, it is possible to conveniently combine the transmission of intrinsically safe signals with all features of the EtherCAT Terminals.

Technical data	ELX9410
Technology	power supply terminal
Short-circuit proof	yes
Input voltage	24 V DC
Input current	typ. 70 mA + (E-bus/4)
Output voltage	5 V for E-bus supply
Max. output current	1 A
Diagnostics in the process image	yes
Special features	E-bus refresh for ELX and EL terminals
Weight	approx. 65 g
Housing width	12 mm
Operating/storage temperature	-25...+60 °C/-40...+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
Approvals	CE, Ex, IECEx

further Ex components	
ELXxxxx	EtherCAT Terminals with intrinsic safe in- and output
ELXxxxx-0090	EtherCAT Terminals with intrinsic safe in- and output and TwinSAFE SC
CPXxxxx	Multi-touch Panel PCs and multi-touch Control Panels for use in hazardous areas, Zone 2/22