



## EJ1101-0022 | EtherCAT Coupler with external connectors, power supply module and optional ID switches

The EJ1101-0022 coupler connects EtherCAT with the EtherCAT plug-in modules (EJxxxx). It converts the passing telegrams from Ethernet 100BASE-TX to E-bus signal representation. The external RJ45 sockets can be installed directly on the signal distribution board. In combination with the external power supply modules EJ9400 (2.5 A) and EJ9404 (12 A), many configurations can be implemented (cabinet feed-throughs, built-in solutions, etc.).

The coupler is connected to the network via the upper EtherCAT interface. The lower RJ45 socket may be used to connect further EtherCAT devices in the same strand. With the EJ1101-0022 a unique ID can be assigned to a group of EtherCAT components via external ID switches. This group can then be located at any position within the EtherCAT network. Variable topologies are therefore easily implementable.

Technical data	EJ1101-0022
Task within EtherCAT system	coupling of EtherCAT plug-in modules (EJxxxx) to 100BASE-TX EtherCAT networks
Distance between stations	max. 100 m (100BASE-TX)
Data transfer medium	Industrial Ethernet/EtherCAT cable (min. Cat. 5), shielded
ID switch	external (optional)
Diagnostics	over-/undervoltage via EtherCAT CoE
Distributed clocks	yes
Protocol	EtherCAT
Delay	typ. 1 µs
Data transfer rates	100 Mbaud
Bus interface	2 x RJ45 (external)
Power supply	24 V DC (-15 %/+20 %)
Current consumption E-bus	typ. 310 mA
Current supply E-bus	–
Electrical isolation	500 V (power contact/supply voltage/Ethernet)
Dimensions (W x H x D)	12 mm x 66 mm x 55 mm
Operating/storage temperature	0...+55 °C/-25...+85 °C
Relative humidity	95 %, no condensation
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protection class	IP 20
Approvals	CE, UL

System	
EtherCAT	For further EtherCAT products please see the <a href="#">system overview</a>