Ethernet Powerlink example

This example uses B&R Automation Studio, B&R X20 PLC and a JVL MAC400 motor with a linear actuator. If the example is used without an actuator the zero search part is simply removed.

The example initiates the motor with a zero search. Because of that the "zero search torque" of the motor has to be set to a value lower than the maximum torque set in the example. Set this with MacTalk prior to start and save this setting in flash. Set for example to 10%.

For the example to work the Ethernet Powerlink module in the motor (MAC00-EP4) has to be setup with the correct cyclic registers with MacTalk. See the comments in **HIdemoCyclic**.

Also the node ID has to be set to 1. This setting is also done with MacTalk (the last number in the IP is the node ID).

The example program code is written in C, and makes mainly use of three modules:

HIdemoInit :   Initializes the motor (zero search)

HIdemoCyclic :   Main program cycle which runs the motor back and forth between two positions.

SdoCom :   Utility made by B&R to read and write acyclic data, see use in **HIdemoCyclic**.