

XenaxDocklightDemo.ptp
XenaxDocklightDemo1_Polling.pts
XenaxDocklightDemo2_Events.pts
Example ASCII Protocol Implementation for
JennyScience AG XENAX controller + LINAX/ELAX motor stage



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Preconditions

- XENAX Xvi75 or Xvi48 controller accessible via TCP/IP
- LINAX/ELAX motor stage ready to operate. Confirm this using the Webmotion web interface "Quick Start" mode.
- Docklight Communication Channel is set up with the correct IP address. Default is **192.168.2.100:10001**.

NOTE: you can double click on the IP address field in the upper right corner to adjust the TCP address, if necessary. (TCP port number is 10001 always.)

How To Use : Manual Testing

- Click --> **Events On EVT1** to activate the event messages (@.. messages)
- Click --> **Referencing REF** for referencing / homing.

After message **[Referencing Complete]** appears:

- Click --> **Set Speed 20000 --> Set Acceleration 400000** to choose starting values for a first low speed test
- Click --> **Go Position G1000** or --> **Go Position 20000** for example positioning.

How To Use: Automatic Testing

- Load the Docklight script file **XenaxDocklightDemo1_Polling.pts** or **XenaxDocklightDemo2_Events.pts** using menu **Scripting > Open Script...**
- Run the script using menu **Scripting > Run Script (Shift + F5)**

NOTE: The motor stage will move with increasing speed and acceleration. Please ensure safe and damage-free operation!

Example Output: Manual Testing:

After some manual testing, the Docklight Communication Window could look like this

01.03.2019 13:20:01.237 [TX] - EVT1<CR>

01.03.2019 13:20:01.354 [RX] - EVT1<CR><LF>
>@S1<CR><LF>
[Ready]

01.03.2019 13:20:01.354 [RX] - >@H<CR><LF>
[Referencing Complete]

01.03.2019 13:20:01.354 [RX] - >
01.03.2019 13:20:04.273 [TX] - REF<CR>

01.03.2019 13:20:04.398 [RX] - REF<CR><LF>
>@S2<CR><LF>
[Moving]

01.03.2019 13:20:04.514 [RX] - >@S1<CR><LF>
[Ready]

01.03.2019 13:20:05.321 [RX] - >@H<CR><LF>
[Referencing Complete]

01.03.2019 13:20:05.461 [RX] - >
01.03.2019 13:20:07.397 [TX] - SP20000<CR>

01.03.2019 13:20:07.563 [RX] - SP20000<CR><LF>
>
01.03.2019 13:20:09.649 [TX] - AC400000<CR>

01.03.2019 13:20:09.784 [RX] - AC400000<CR><LF>
>
01.03.2019 13:20:11.964 [TX] - G1000<CR>

01.03.2019 13:20:12.121 [RX] - G1000<CR><LF>
>@S2<CR><LF>
[Moving]

01.03.2019 13:20:12.235 [RX] - >@S1<CR><LF>
[Ready]

01.03.2019 13:20:12.603 [RX] - >
01.03.2019 13:20:16.205 [TX] - G20000<CR>

01.03.2019 13:20:16.345 [RX] - G20000<CR><LF>
>@S2<CR><LF>
[Moving]

01.03.2019 13:20:16.495 [RX] - >@S1<CR><LF>
[Ready]

01.03.2019 13:20:17.361 [RX] - >