Technical Bulletin - Inverting Inputs

How to invert inputs so an active low signal is correctly processed

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Problem

The Stuertz infeed table has active low inputs for the axis datum sensors, and for the "Vorlaufwagen" Out sensor
Also
The WEG Inverter "Healthy" signal is active high, yet the software alarm is looking for a low input

Solution

Additional functionality added to front end v 6.4.11.0 and back end v6.6000 to utilise the "inverted flag in the ioDef file.

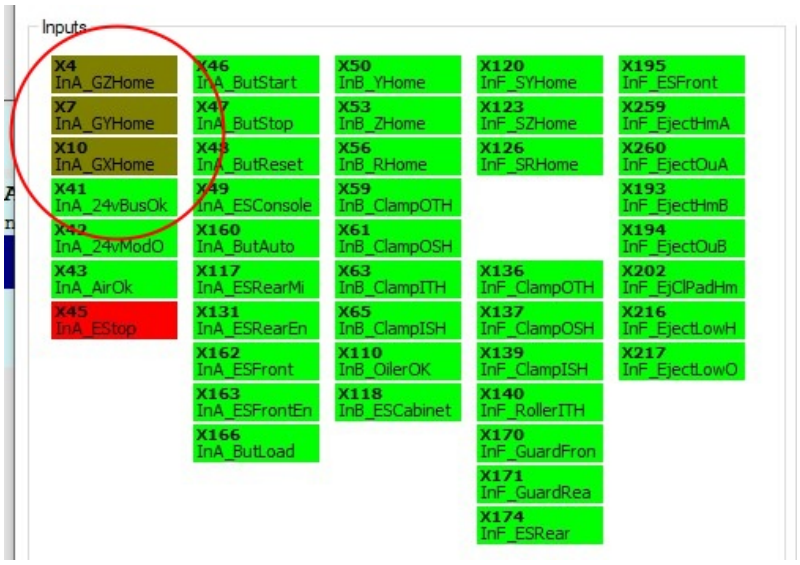
> ...This flag has not been utilised in TwinCAT software to this point

Stuertz Infeed

To flag an input "inverted", set the 6th field in the IODef to 1

```
InA_GZHome,4,1,0,0,1,0,0,0,-1,0,1,
InA_GZLimitF,5,0,0,1,0,0,0,-1,-1,0
InA_GZLimitR,6,0,0,1,0,0,0,-1,-1,0
InA_GYHome,7,1,0,0,1,0,0,1,-1,0,1,
InA_GYLimitF,8,0,0,0,1,0,0,-1,-1,0
InA_GYLimitR,9,0,0,0,1,0,0,-1,-1,0
InA_GXHome,10,1,0,0,1,0,0,2,-1,0,1
InA_GXLimitF,11,0,0,0,1,0,0,-1,-1,
InA_GXLimitR,12,0,0,0,1,0,0,-1,-1,
```

The signal from the input will then be inverted internally.
To make this identifiable to maintenance staff, the normal Red and Green on the IO screen is darker in colour.



WEG Ovl Inputs