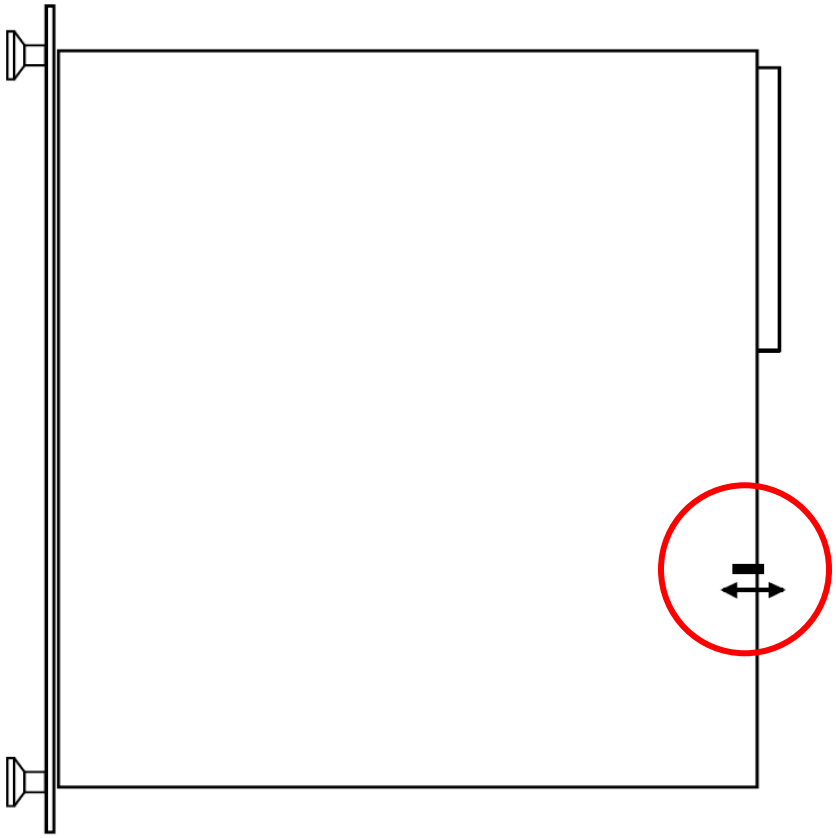
ISEG Safety Loop

The safety loop is provided via the safety loop socket (SL) on the front panel as well as through the SL-contact Pin 22 and PIN 30 of the REDEL-connector (for modules with REDEL multi-pin connector).
The matching cable-side connector for SL is LEMO FFA.0S.302.CLAZ (Circular Push Pull Connectors SIZE 0 2-PIN SOLDER SLDER W/O COLLET)

The pins of the loop are potential free, i.e. an external matching DC has to be provided to “close” the safety loop (see example on next page). The internal voltage drop is about 3V.

Coming from the factory the safety loop is not active (the corresponding bits are always set). By removing the rear side located jumper (2 jumpers for modules with 2 PPCB’s!) the safety loop will become active.



If the safety loop is activated then the output voltage on all channels is only present if the safety loop is “closed”, i.e. an external current in the range of 5mA to 20mA of any polarity is flowing through the loop!

If the safety loop is opened during operation then the output voltages are shut off without ramp and the corresponding bit in the ‘ModuleStatus’ (see manual CAN interface 5.5.2.1) and ModuleEventStatus (see manual CAN interface 5.5.2.3) will be cancelled. After the loop will be closed again the ModuleEventStatus (see

manual CAN interface 5.5.2.3) must be restored and the channels must be switched 'ON'.

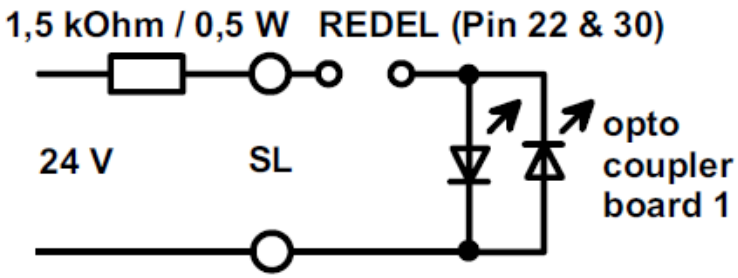
For MPOD systems with SNMP control the safety loop reset can be done with

snmpset -v 2c -m +WIENER-CRATE-MIB -c guru IP-address groupsSwitch.64 I 10.

The green status LED should come back on and channels then can be switched on.

Safety Loop schematics / wiring example for using a 24V DC supply

One board module:
EHS 8xxx
EDS Fxxx
EBS 8xxx



Two board module:
EHS Fxxx
EDS 20xxx
EBS Fxxx