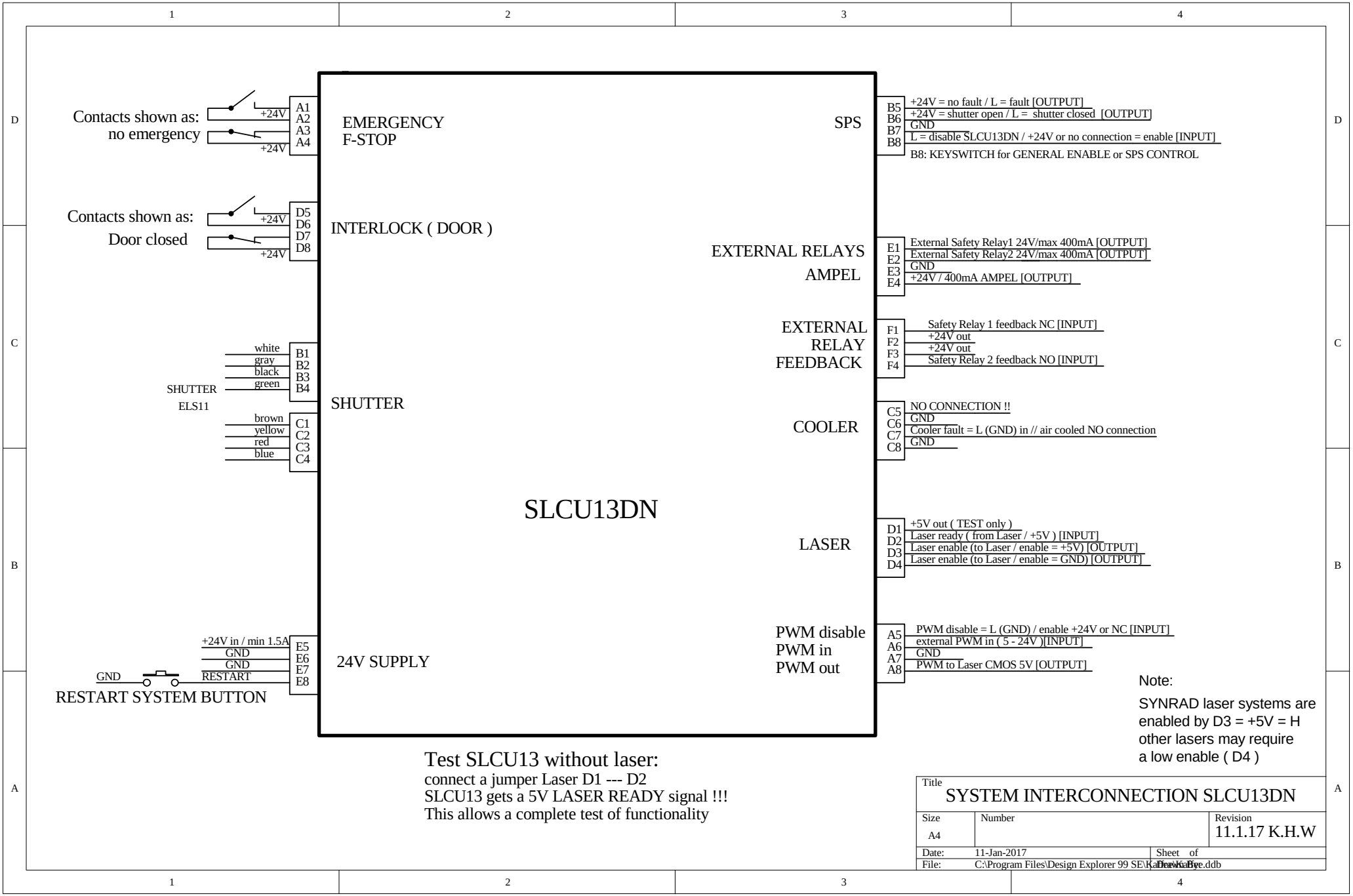
Contacts shown as:
no emergency
+24V
+24V
A1
A2
A3
A4
EMERGENCY
F-STOP
Contacts shown as:
Door closed
+24V
+24V
D5
D6
D7
D8
INTERLOCK (DOOR)
SHUTTER
ELS11
white
gray
black
green
B1
B2
B3
B4
brown
yellow
red
blue
C1
C2
C3
C4
SHUTTER
+24V in / min 1.5A
GND
GND
RESTART
GND
E5
E6
E7
E8
24V SUPPLY
RESTART SYSTEM BUTTON
SLCU13DN
SPS
B5
B6
B7
B8
+24V = no fault / L = fault [OUTPUT]
+24V = shutter open / L = shutter closed [OUTPUT]
GND
L = disable SLCU13DN / +24V or no connection = enable [INPUT]
B8: KEYSWITCH for GENERAL ENABLE or SPS CONTROL
EXTERNAL RELAYS
AMPEL
E1
E2
E3
E4
External Safety Relay1 24V/max 400mA [OUTPUT]
External Safety Relay2 24V/max 400mA [OUTPUT]
GND
+24V / 400mA AMPEL [OUTPUT]
EXTERNAL
RELAY
FEEDBACK
F1
F2
F3
F4
Safety Relay 1 feedback NC [INPUT]
+24V out
+24V out
Safety Relay 2 feedback NO [INPUT]
COOLER
C5
C6
C7
C8
NO CONNECTION !!
GND
Cooler fault = L (GND) in // air cooled NO connection
GND
LASER
D1
D2
D3
D4
+5V out (TEST only)
Laser ready (from Laser / +5V) [INPUT]
Laser enable (to Laser / enable = +5V) [OUTPUT]
Laser enable (to Laser / enable = GND) [OUTPUT]
PWM disable
PWM in
PWM out
A5
A6
A7
A8
PWM disable = L (GND) / enable +24V or NC [INPUT]
external PWM in (5 - 24V)[INPUT]
GND
PWM to Laser CMOS 5V [OUTPUT]
Note:
SYNRAD laser systems are
enabled by D3 = +5V = H
other lasers may require
a low enable (D4)
Test SLCU13 without laser:
connect a jumper Laser D1 --- D2
SLCU13 gets a 5V LASER READY signal !!!
This allows a complete test of functionality
Title
SYSTEM INTERCONNECTION SLCU13DN
Size
A4
Number
Revision
11.1.17 K.H.W
Date:
11-Jan-2017
Sheet of
File:
C:\Program Files\Design Explorer 99 SE\Kaiser\Kaiser.ddb
Drawn By: