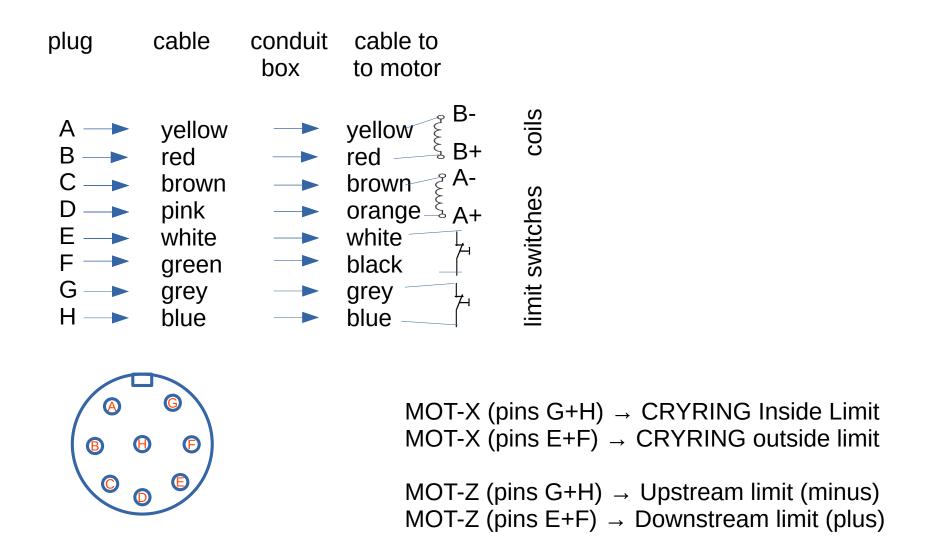
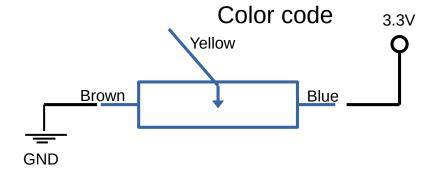
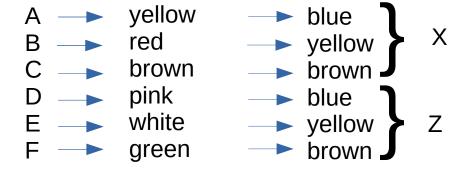
Motor connectors:



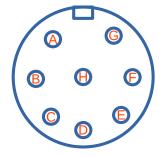
Potentiometers:



Plug cable conduit cable box to poti

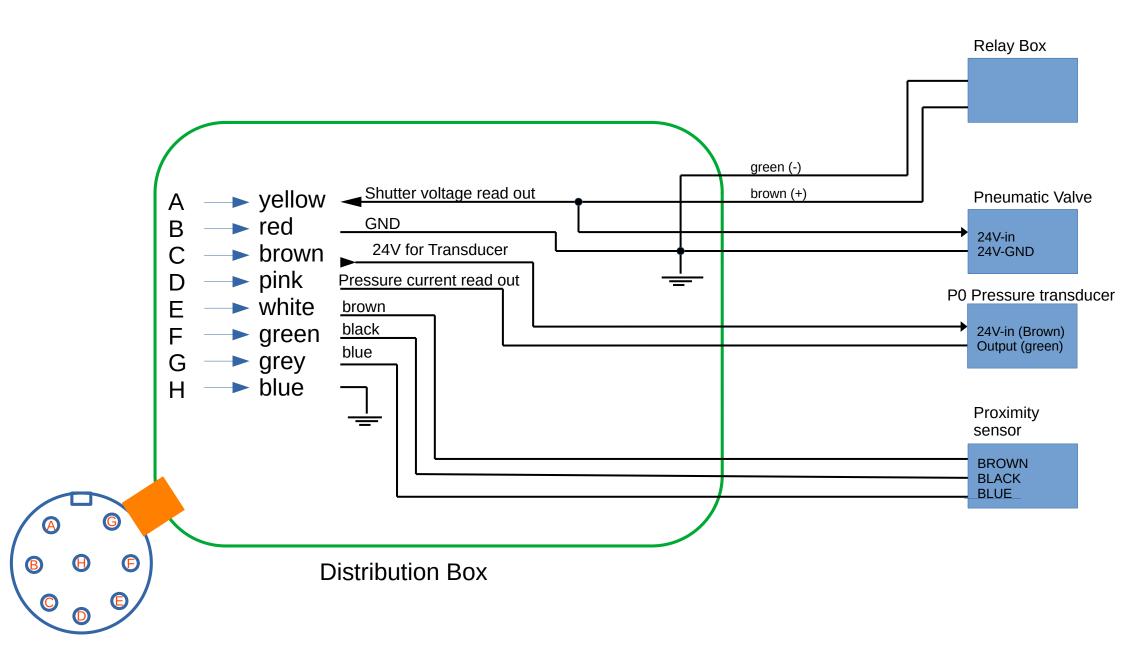


Directions:

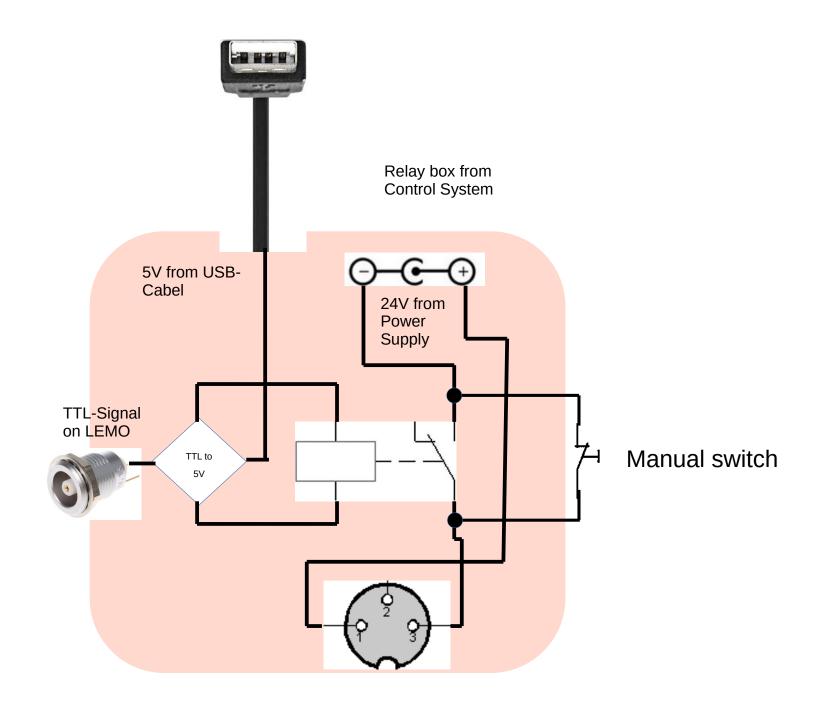


Poti value grows between yellow pin and brown (GND), if poti shaft is pulled out. Min: 17 Ohm, Max: 2070 Ohms

Distribution Box:



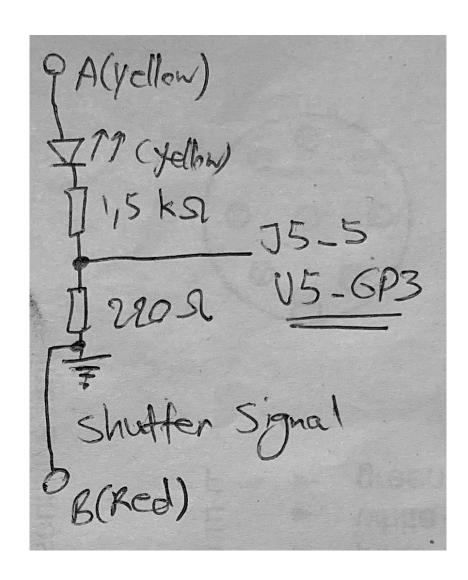
Relay Box:



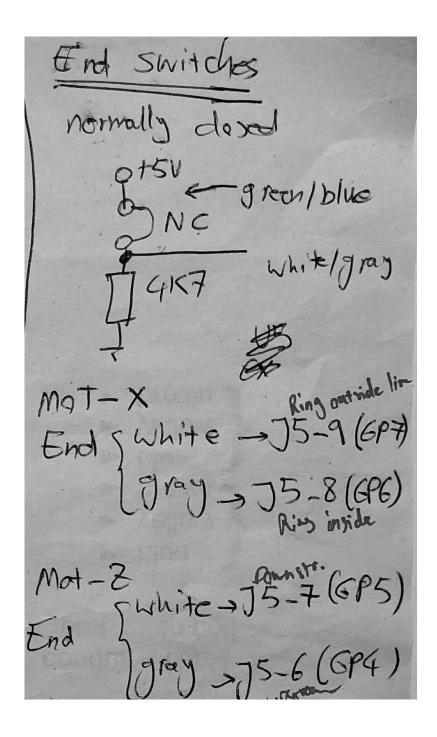
Shutter signal:

Pneumatic Valve

Model: CPE10-M1B-H-5L-QS-6 Requirements: 24 V DC: 1,28 W



End switches:



Potentiometers calibration values:

Poti Zero values:

Pot-X yellow (B) and brown (C): 1.1197 kOhm

Pot-Z yellow (E) and brown (F): 1.0624 kOhm

X direction:

1.197 kOhm → 182.5 mm → ADC: 2313 → 1,867 V (zero point) 1.953 kOhm → 201.5 mm → ADC: 3793 → 3.057 V (Δ)

Z direction:

1.0624 kOhm \rightarrow 180 mm \rightarrow ADC: 2045 \rightarrow 1.648 V (zero point) 1.875 kOhm \rightarrow 199 mm \rightarrow ADC: 3675 \rightarrow 2.962 V (Δ)

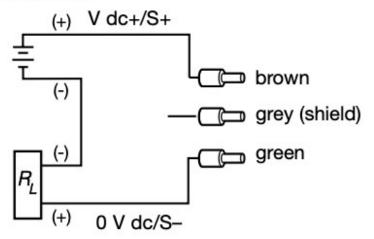
(fot X Schleifer) J9-Pin 5 ADC-U3 E(POT-Z) J9-Pin4 ADC-U3 channel 1

Pressure transducer:

Pressure Transducer

Model: PTI-S-AG60-12AS-T

Direct wire, flying lead



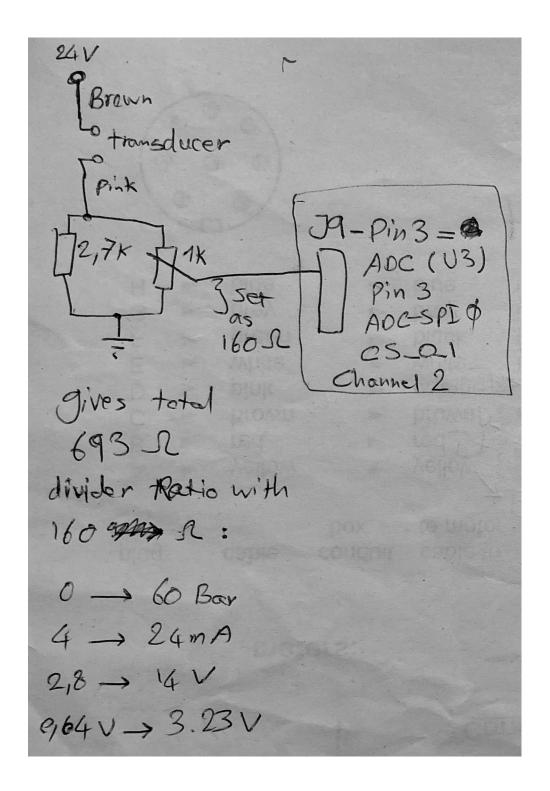
Maximum Load Equations

Milliampere output signal, 2 wire

Output 4 to 20 mA

Supply V dc = 10 to 30 V

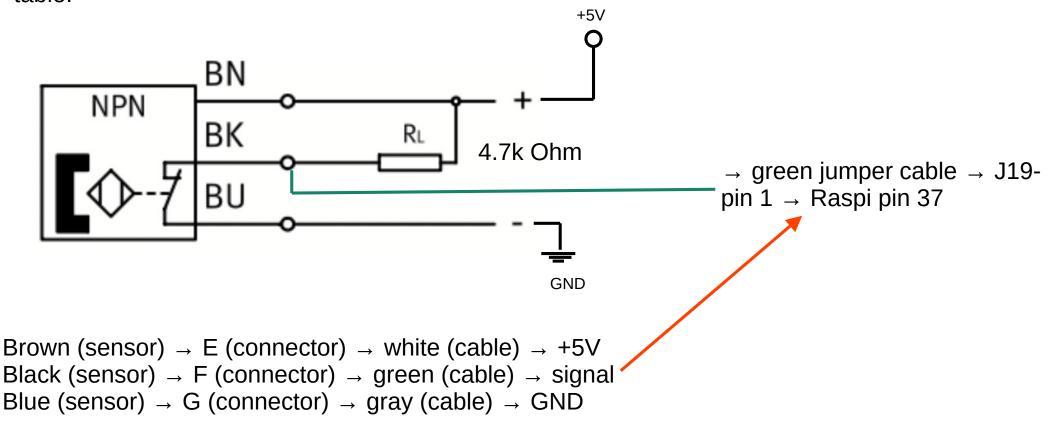
Max. Load $R_L = (V dc - 10) / 0.02$



Proximity Sensor:

Proximity sensor is installed at beginning of the the shaft. So it only gives a HI when the shutter is out. So the signal is inverted in software in order to match the table.

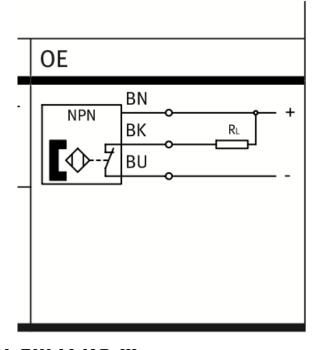
Shutter	In (Jet off)	Out (Jet on)		
GENESYS	HI	LOW		
Signal	TRUE	FALSE		
Sensor	TRUE	FALSE		



Proximity Sensor:



Model: SMT-8M-A-NO-24V-E-7,5-OE



Betriebsspannungsbereich	[V AC/DC]	5 30
Max. Ausgangsstrom	[mA]	100
Max. Schaltleistung	[W]	2,8

Wire connections:

Round connectors	Round connector wire	Arriving connector	Jumper- wire color	Connector on Board	Raspberr y Pin	Description
E	MOT-X end white	J5-9	yellow	J6-1	16	Ring outside limit X
G	MOT-X end gray	J5-8	blue	J6-2	18	Ring inside limit X
Е	MOT-Z end white	J5-7	orange	J6-3	22	Downstream limit Z
G	MOT-Z end gray	J5-6	red	J17-2	32	Upstream limit Z
Α	shutter set signal	J5-5	white	J19-2	33	Command from GENESYS
F	shutter sensor signal	direct from side board	green	J19-1	37	HI when shutter out