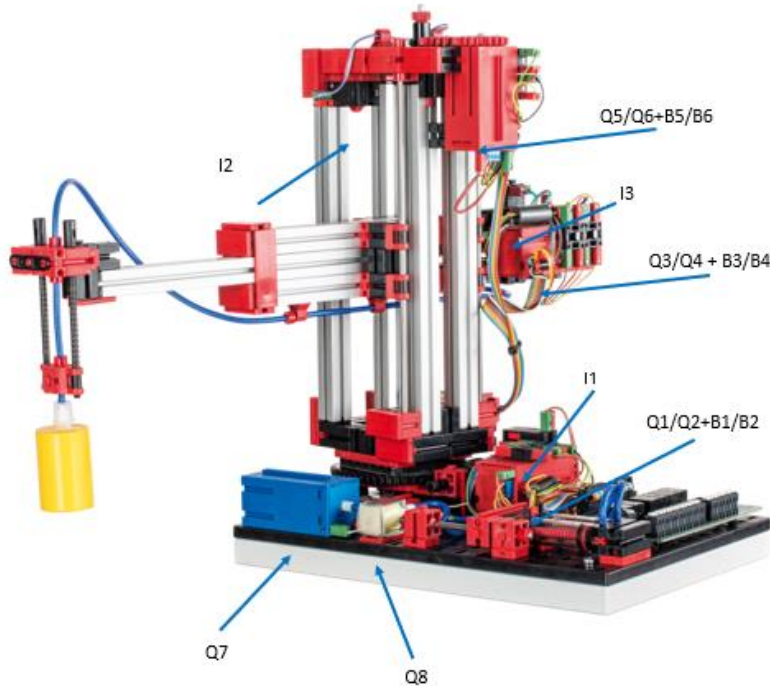


Factory module assignment plans

Assignment plan for the vacuum suction gripper

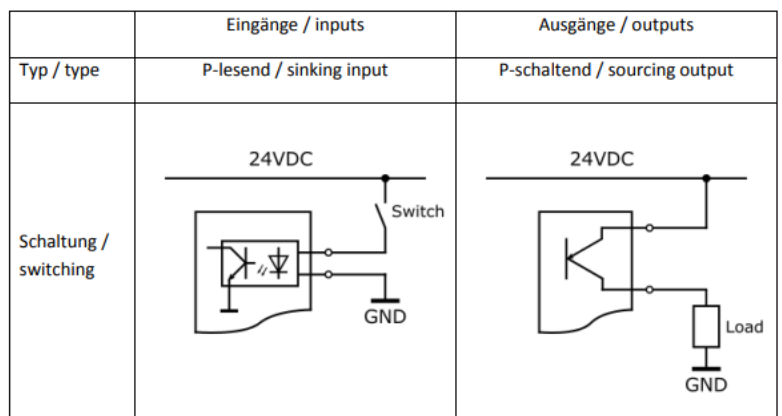


Terminal no. (ST1)	Function	Designation
1	Power supply (+) actuators	24V DC
2	Power supply (+) sensors	24V DC
3	Power supply (-)	0V
4	Power supply (-)	0V
5	Vertical reference switch	I1
6	Horizontal reference switch	I2
7	Turn reference switch	I3
9	Encoder vertical pulse 1	B1
10	Encoder vertical pulse 2	B2
11	Encoder horizontal pulse 1	B3
12	Encoder horizontal pulse 2	B4
13	Turn encoder pulse 1	B5
14	Turn encoder pulse 2	B6
17	Vertical motor up	Q1 (M1)
18	Vertical motor down	Q2 (M1)
19	Horizontal motor backwards	Q3 (M2)
20	Horizontal motor forwards	Q4 (M2)
21	Turn motor clockwise	Q5 (M3)
22	Turn motor anti-clockwise	Q6(M3)
23	Compressor	Q7
24	Valve vacuum	Q8
25	PWM horizontal	PWM (M1)
26	PWM vertical	PWM (M2)
27	Turn PWM	PWM (M3)

17x2 Stiftleiste / 17x2 pin header

+24V (Aktoren / actuators)	1	2	+24V (Sensoren / sensors)
0V (GND)	3	4	0V (GND)
I1	5	6	I2
I3	7	8	
B1	9	10	B2
B3	11	12	B4
B5	13	14	B6
	15	16	
Q1	17	18	Q2
Q3	19	20	Q4
Q5	21	22	Q6
Q7	23	24	Q8
	25	26	
	27	28	
	29	30	
	31	32	
GND	33	34	GND

SPS Eingangs- und Ausgangskonfiguration / PLC input and output configuration



Model wiring

Terminal	Header ST1	Ribbon cable	Sensors + actuators model
17	Vertical up	1	Q1/Q2 (M1)
18	Vertical down	2	
3.4	GND	3	Encoder power supply A Signal A Signal B
2	24V (Sensor)	4	
9	A	5	
10	B	6	
5	Reference vertical	7	I1
2	24V	8	
19	Horizontal back	9	Q3/Q4 (M2)
20	Horizontal forward	10	
3.4	GND	11	Encoder power supply A Signal A Signal B
2	24V (Sensor)	12	
11	A	13	
12	B	14	
6	Reference horizontal	15	I2
2	24V (Sensor)	16	

Terminal	Header ST2	Ribbon cable	Sensors + actuators model
7	Turn reference	1	I3
2	24V (Sensor)	2	
21	Turn clockwise	3	Q5/Q6 (M3)
22	Turn anti-clockwise	4	
3.4	GND	5	Encoder power supply A Signal A Signal B
2	24V (Sensor)	6	
13	A	7	
14	B	8	
3.4	GND	9	Q7 (compressor)
23	Compressor	10	

3.4	Terminal V4
24	

Q8 (Valve vacuum)

red = power supply
yellow = Motor poles reversible via relay

Schlauchanschlussplan / air line layout plan

