

SCADA EQUIPA

The diagram illustrates the wiring for a SCADA system, organized into three main sections: MOXA Ethernet adapter, GROOV RIO OPTO 22 module, and various digital inputs and outputs.

MOXA ETHERNET WIFI ADAPTOR

- Ethernet XXXX: Connected to +24 VDC TB and 0V TB.

GROOV RIO OPTO 22

- XXXX Ethernet: Connected to +24 V TB and 0V TB.

Digital Inputs (DI) and Outputs (DO)

- DI 0: M1 PRT CNT**: Connected to 1 (XEXM B4) and 2 (XSIGT B3).
- DI 1: M2 PRT CNT**: Connected to 4 (0V) and 5 (0V).
- DI 2: MACHINE ALARM**: Connected to 7 (XSIGT A1) and 8 (0V).
- DI 3: ROBOT BIN 0**: Connected to 10 (WAGO DO 14) and 11 (0V).
- DI 4: ROBOT BIN 1**: Connected to 13 (WAGO DO 15) and 14 (0V).
- DI 5: ROBOT BIN 2**: Connected to 15 (WAGO DO 16) and 16 (0V).
- DI 6: M1 IN CYCLE**: Connected to 17 (XSIGT B2) and 18 (0V).
- DI 7: M2 IN CYCLE**: Connected to 19 (0V) and 20 (0V).

Digital Outputs (DO)

- DO 8: XXX**: Connected to 21 (DO8 NC), 22 (DO8 COM), and 23 (DO8 NO).
- DO 9: XXX**: Connected to 24 (DO9 NC), 25 (DO9 COM), and 26 (DO9 NO).

GROOV RIO OPTO 22

+24 V
0V

XXX: XXX
XXXX ①
XXX ②

AD-DTP-SP1 XSP2B
S12 COM → RELAY 7 A2
S12 → RELAY 8 A2

OPE BOX PANEL 1
CYCLE START → WAGO DI 9
SB200 → WAGO DO 1

AD-DTP-SP1 XSP1A
CHUCK SWITCH → WAGO DO 3
SF1 →

AD-DTP-SP1 XSP2B
CHUCK CLOSED → RELAY 8 A1
Y10 →

AD-DTP-SP1 XSP2B
CHUCK OPEN → RELAY 7 A1
Y11 →

AP-DTP-NL
A1 MCODE RESET (A1) → WAGO DO 2
B1 M441 (B1) → WAGO DI 4
B2 M442 (B2) → WAGO DI 10
B3 M443 (B3) → WAGO DI 3
B4 M444 (B4) → RELAY 9 A1/GROOV PIN 1
B5 M440 (B5) →

XEXM PORT
A1 (A1)
A2 (A2)
A3 (A3)
A4 (A4)
A5 (A5)

AP-DTP-NL
XSIGT A1 ALARM (A1) → GROOV PIN 7
XSIGT A3 NOT IN CYCLE (A3) →
XSIGT B2 IN CYCLE (B2) → GROOV PIN 17
XSIGT B3 N24 (B3) → GROOV PIN 2

XSIGT PORT
A1 (A1)
A2 (A2)
A3 (A3)

WAGO 750-352 Ether IP

1 +24 VDC

1 0V

Ethernet

WAGO 750-602 Power Dist Block

2 +24V

6 +24V

3 0V

7 0V

4 gnd

8 gnd

GND*

WAGO 750-600 END

1 +24V

4 +24V

2 0V

5 0V

3 gnd

6 gnd

WAGO 750-1405 16-In (PNP)

1 DI1 M2 CHUCK OPEN

2 DI2 M2 CHUCK CLOSED

3 DI2 M2 M443

4 DI2 M2 M441

5 DI5 OP DOOR TOGGLE

6 XXXX

7 DI7 M2 DOOR OPEN

8 DI8 M2 DOOR CLOSE

9 M2 OP CYCLE START

10 M2 M442

11 XXXX

12 XXXX

13 XXXX

14 XXXX

15 XXXX

16 XXXX

WAGO 750-1504 16-Out (PNP)

1 DO1 M2 CYCLE START

2 DO2 M2 MCODE RESET

3 DO3 M2 CHUCK TOGGLE

4 DO4 M2 DOOR OPEN

5 DO5 M2 DOOR CLOSE

6 MACHINE AIRBLAST

7 XXXX

8 XXXX

9 XXXX

10 XXXX

11 XXXX

12 XXXX

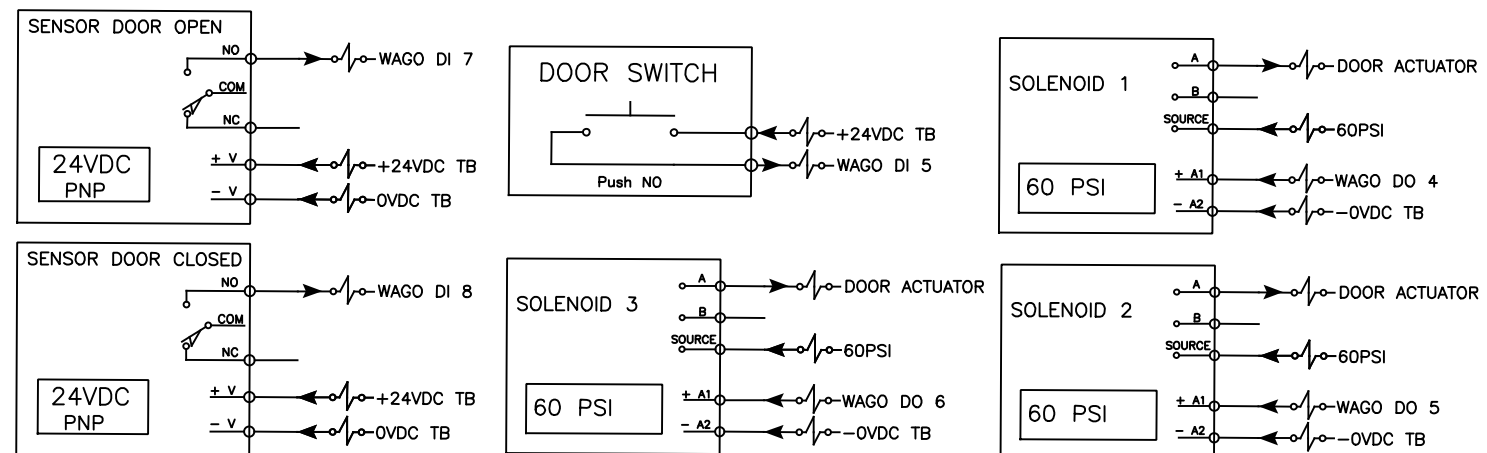
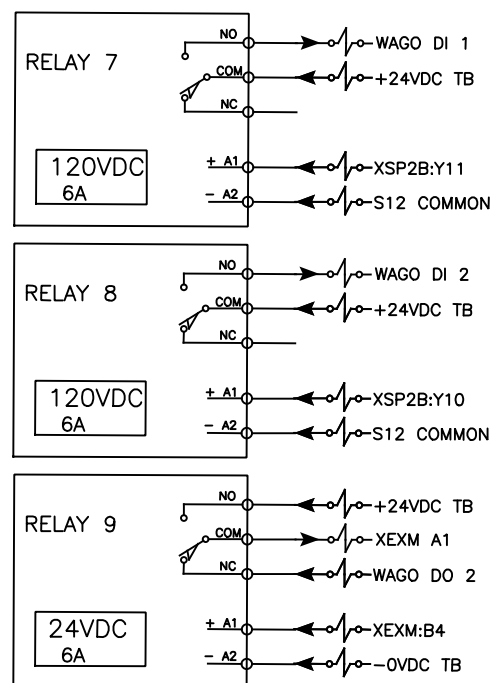
13 XXXX

14 SCADA ROBOT B0

15 SCADA ROBOT B1

16 SCADA ROBOT B2

192.168.1.1



RWD51A0046 MORI 51-46 Machine Wire Diagram

RBC
Industrial Tectonics Bearings
Automation - Electrical
