

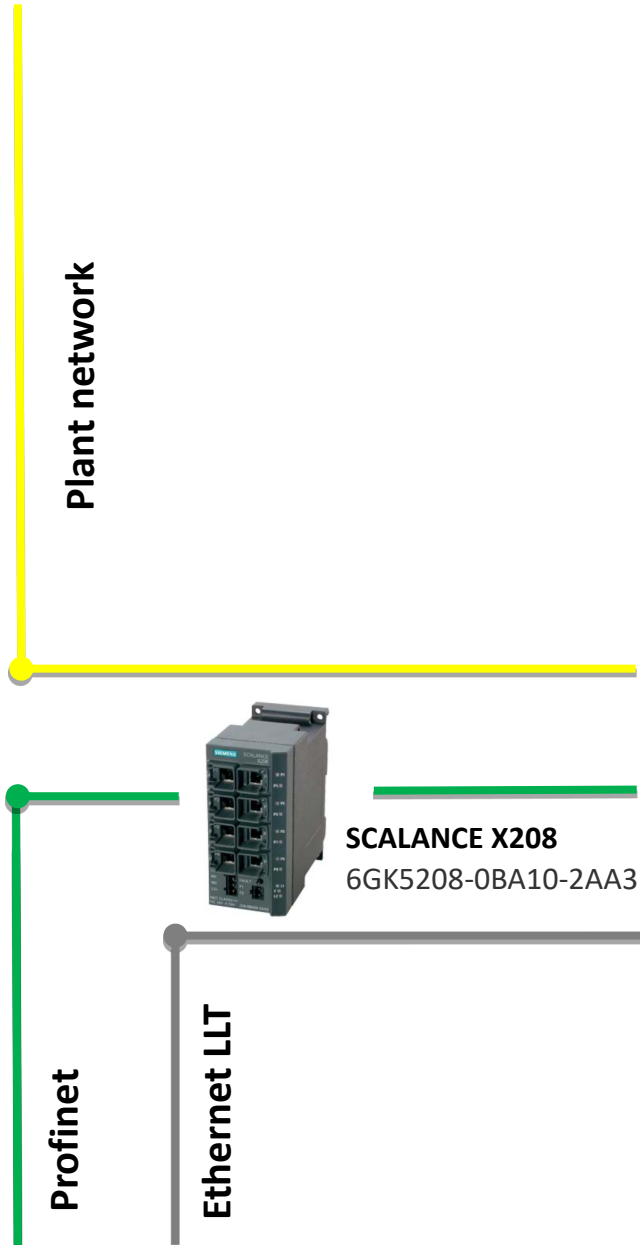


Elektrický koncept robotizovaného meracieho pracoviska

ME-Inspection SK

23. 10. 2020, Version 1.3

| Version | Description of change | Person |
|---------|---|---------------|
| 1.0 | Creation of document | Patrik Herčút |
| 1.1 | Add more PLC options | Patrik Herčút |
| 1.2 | Add ethernet for LLT sensor Change of robot control unit Manageable switch Safety scheme | Patrik Herčút |
| 1.3 | Revision PLC order number Add safety shut down scheme | Patrik Herčút |
| | | |



SCALANCE X208
6GK5208-0BA10-2AA3



SIMATIC IFP1900 PRO 19"
Flat panel monitor
6AV7466-6MA02-0CS0



SIMATIC IPC427E
64 Bit Version
6AG4141-1AA17-0FA0
Runtime software
Windows 10 IoT Enterprise
SIMATIC WinCC Basic V15.1

1.)



HW PLC
CPU 1516F-3 PN/DP
6ES7516-3FN01-0AB0
(PROFIsafe, SIMATIC ProDiag
S7-1500, Runtime License(s))

+ no need safety relay
- price

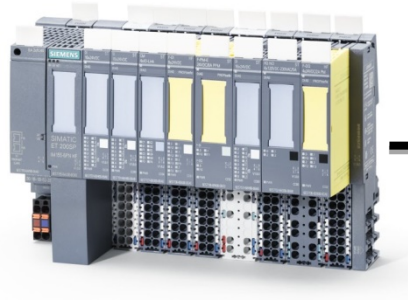
2.)



HW PLC
CPU 1516-3 PN/DP
6ES7516-3AN01-0AB0
SIMATIC S7-1500

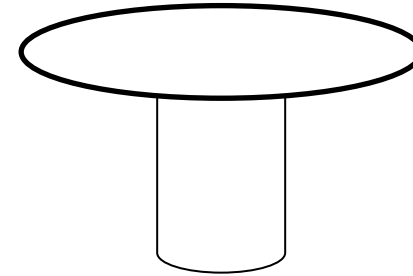
+ price
- need safety relay

Electrical concept: Rotary table control cabinet



ET200SP

I/O control

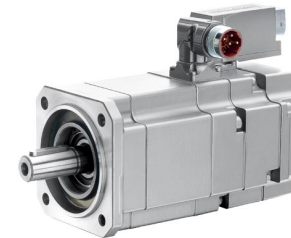


Rotary table

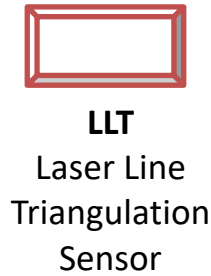


Sinamics S120

Motor control



SIMOTICS 3 1FK7042
PN=0.59kW



Controller E40
Communication:
Profinet, Ethernet/IP
(100BASE-TX), USB, RS-232C





**F-DI 6ES7
ET200SP module
136-6BA00-0CA0**



**SICK
S30A-4011BA
Safety scanner
laser**

**EMERGENCY
Stop1**

**Other safety
devices**





PILZ PNOZ X6
Safety relay

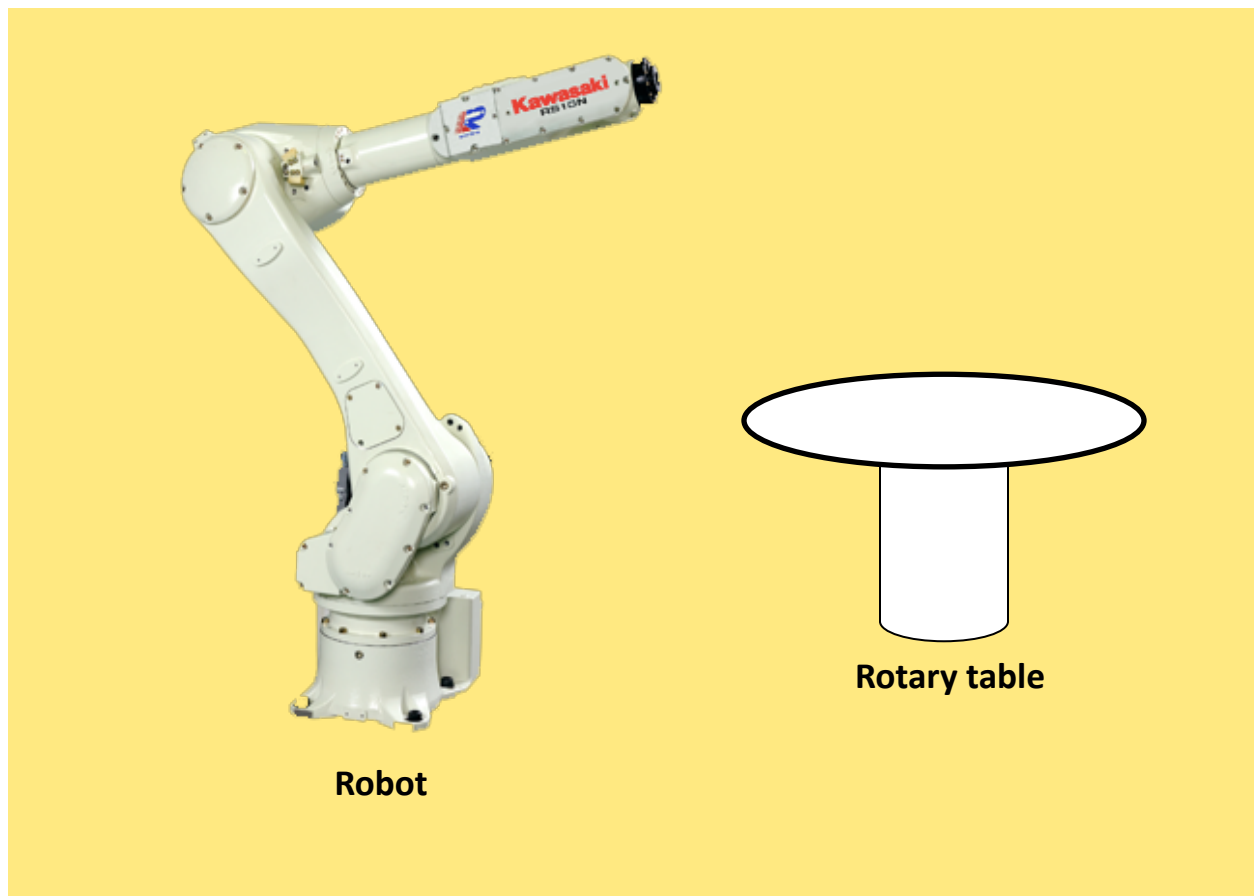


**SICK
S30A-4011BA**
Safety scanner
laser



**EMERGENCY
Stop**





Robot

Rotary table