

CPX/VTSA-F-CB ETHERNET-IP/ETHERCAT CONFIGURATIONE RULES

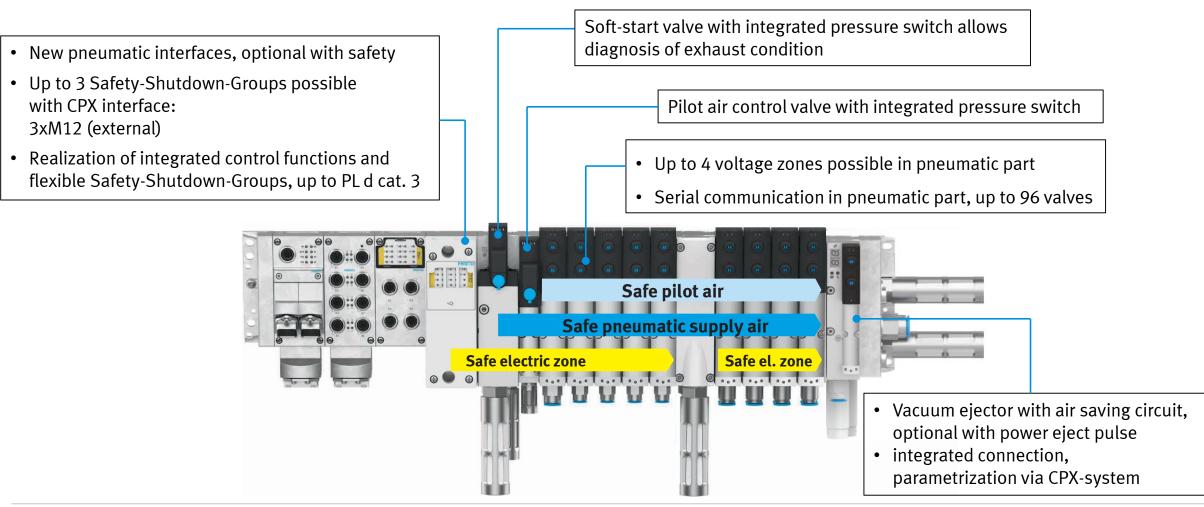
Created: 10/6/2020

VTSA-F-CB configuration rules_EtherNET IP



CPX/VTSA-F-CB – Brief description

VTSA-F-CB configuration rules_EtherNET IP



Created: 10/6/2020



CPX/VTSA-F-CB: New VTSA pneumatic interfaces with FB36 (Ethernet-IP)

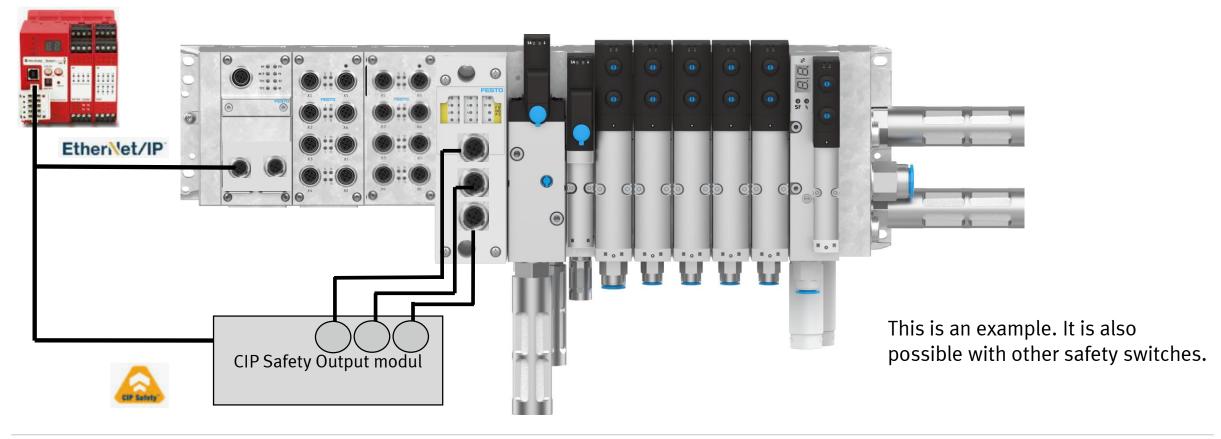




Pneumatic interface with external supply of 3 potentials (M12). Incl. output driver for 24 coils. diagnosis via IO tags



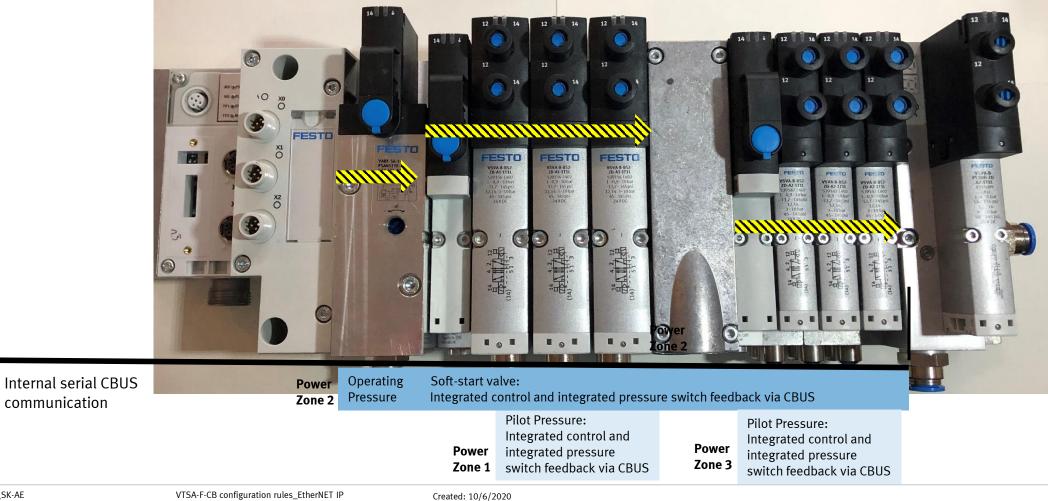
CPX/VTSA-F-CB with serial communication, 3xM12 for zones and vacuum integration





5

CPX/VTSA-F-CB with serial communication and safe zones





CPX | VTSA-F-CB configuration for FB36

Terminal configuration



A way to configure a terminal in a Rockwell enviroment, is to use the .L5K export function of the FMT tool

- Go "online" and upload the configuration in to the FESTO Maintanance (FMT) or
- Configure "offline"

Download a manual for the export process here

| File Edit | View Online CPX Extras Help | |
|---|--|--|
| D 🚅 目 | 🗙 🖇 🖻 💼 😰 📾 💷 🖉 🖉 | Test State S |
| | | VABF VABV VABF CB1 ZHS-TS V2B1 |
| • |] | |
| Module | Туре | Info |
| 0 | FB36 - EtherNet/IP Remote-IO V2 | Fieldbus node EtherNet/IP 2-Port (F36) |
| 1 | | Fleidbus node EtheriNet/IP 2-Port (F30) |
| | 8DI - Input module | Heldbus node Emerved/IP 2-Port (FSD) digital input module with 8 channels, 24VDC, PNP (E) |
| 2 | | |
| | 8DI - Input module | digital input module with 8 channels, 24VDC, PNP (E) |
| 2 | 8DI - Input module 8DO - Output module | digital input module with 8 channels, 24VDC, PNP (E) digital output module with 8 channels, 24VDC, 0,5A, PNP (L) |
| 2 | 8DI - Input module 8DO - Output module VTSA-CB-Z - Pneumatic interface - 3xM12 | digital input module with 8 channels, 24VDC, PNP (E) digital output module with 8 channels, 24VDC, 0,5A, PNP (L) Pneumatic interface for VSVA-Plug-In-Valves in plastic/metal, 1-24 valve coils with 3 external supply voltage of the zones |
| 2 3 4 | 8DI - Input module 8DO - Output module VTSA-CB-Z - Pneumatic interface - 3xM12 VABV-1Q-CB1 - Manifold sub-base soft-star | digital input module with 8 channels, 24VDC, PNP (E) digital output module with 8 channels, 24VDC, 0,5A, PNP (L) Pneumatic interface for VSVA-Plug-In-Valves in plastic/metal, 1-24 valve coils with 3 external supply voltage of the zones Manifold sub-base for Soft-Start-Valve with plug-in pressure switch, powerd by separate voltage zone |
| 2 3 4 5 | 8DI - Input module 8DO - Output module VTSA-CB-Z - Pneumatic interface - 3xM12 VABV-1Q-CB1 - Manifold sub-base soft-star VABV-12HS-T5 - Manifold sub-base pilotair | digital input module with 8 channels, 24VDC, PNP (E) digital output module with 8 channels, 24VDC, 0,5A, PNP (L) Pneumatic interface for VSVA-Plug-In-Valves in plastic/metal, 1-24 valve coils with 3 external supply voltage of the zones Manifold sub-base for 50ft-Start-Valve with plug-in pressure switch, powerd by separate voltage zone Manifold sub-base for 18mm pilotair valve with plug-in pressure switch + 26mm solenoid valve |
| 1 2 1 3 1 4 1 5 1 6 | 8DI - Input module 8DO - Output module VTSA-CB-Z - Pneumatic interface - 3xM12 VABV-1Q-CBI - Manifold sub-base soft-star VABV-12H5-T5 - Manifold sub-base pilotair VABF-CBI - Pneumatic extension powered b | digital input module with 8 channels, 24VDC, PNP (E) digital output module with 8 channels, 24VDC, 0,5A, PNP (L) Pneumatic interface for VSVA-Plug-In-Valves in plastic/metal, 1-24 valve coils with 3 external supply voltage of the zones Manifold sub-base for Soft-Start-Valve with plug-in pressure switch, powerd by separate voltage zone Manifold sub-base for 18mm pilotair valve with plug-in pressure switch + 26mm solenoid valve Pneumatic extension for VSVA-Plug-In-Valves on VTSA-F-C8, 1-24 valve coils, powered by separate voltage zone Manifold sub-base for 18mm pilotair valve with plug-in pressure switch + 18mm solenoid valve |
| 1 2 1 3 1 4 1 5 1 6 1 7 | 8DI - Input module 8DO - Output module VTSA-CB-Z - Pneumatic interface - 3xM12 VABV-1Q-CB1 - Manifold sub-base soft-star VABV-12HS-T5 - Manifold sub-base pilotair VABV-CB1 - Pneumatic extension powered b VABV-2HS-T5 - Manifold sub-base pilotair v | digital input module with 8 channels, 24VDC, PNP (E) digital output module with 8 channels, 24VDC, 0,5A, PNP (L) Pneumatic interface for VSVA-Plug-In-Valves in plastic/metal, 1-24 valve coils with 3 external supply voltage of the zones Manifold sub-base for Soft-Start-Valve with plug-in pressure switch, powerd by separate voltage zone Manifold sub-base for 18mm pilotair valve with plug-in pressure switch + 26mm solenoid valve Pneumatic extension for VSVA-Plug-In-Valves on VTSA-F-C8, 1-24 valve coils, powered by separate voltage zone Manifold sub-base for 18mm pilotair valve with plug-in pressure switch + 18mm solenoid valve |
| 1 2 1 3 1 4 1 5 1 6 1 7 1 8 | 8DI - Input module 8DO - Output module VTSA-CB-Z - Pneumatic interface - 3xM12 VABV-1Q-CB1 - Manifold sub-base soft-star VABV-12HS-T5 - Manifold sub-base pilotair VABV-CB1 - Pneumatic extension powered b VABV-2HS-T5 - Manifold sub-base pilotair v | digital input module with 8 channels, 24VDC, PNP (E) digital output module with 8 channels, 24VDC, 0,5A, PNP (L) Pneumatic interface for VSVA-Plug-In-Valves in plastic/metal, 1-24 valve coils with 3 external supply voltage of the zones Manifold sub-base for Soft-Start-Valve with plug-in pressure switch, powerd by separate voltage zone Manifold sub-base for 18mm pilotair valve with plug-in pressure switch + 26mm solenoid valve Pneumatic extension for VSVA-Plug-In-Valves on VTSA-F-C8, 1-24 valve coils, powered by separate voltage zone Manifold sub-base for 18mm pilotair valve with plug-in pressure switch + 18mm solenoid valve |

| ile | Edit View Online CPX Extra | as Help | |
|-----|----------------------------|---------|---|
| | New | Ctrl+N | 💷 🖽 🐚 🔊 🚊 📥 🕷 🕺 |
| | Open | Ctrl+O | |
| | Save | Ctrl+S | 2HS-T5 CB1 2HS-T5 V2B1 |
| | Save As | | |
| | Save As HTML | | |
| | Export | × | RSLogix (.L5K) |
| | Print | Ctrl+P | RSLogix Merge (.L5K) |
| | Print Preview | | Siemens (.cfg) |
| | Print Setup | | Powerlink (.xdc) |
| | Send Mail | | |
| | Send HTML report | | |
| | 1 D:\TEMP\\Ford VTSA-F-CB | | |
| | 2 C:\Users\\Untitled | | Info |
| | Exit | | Fieldbus node EtherNet/IP 2-Port (F36) |
| | | | digital input module with 8 channels, 24VDC |

6



CPX | VTSA-F-CB configuration for FB36

Terminal configuration

| Controller Tags - WorkingProject(controller) × | | | | | | |
|--|---|---|---|---|--|--|
| Scope: 😳 WorkingProject 👻 Show: All Tags | | ✓ Enter Name Filter | | | | |
| Name | == Alias For | Base Tag | Data Type | Description | | |
| Festo_CPX:C | | | AB:ETHERNET_MODULE:C:0 | | | |
| ▲ Festo_CPX:I | | | AB:ETHERNET_MODULE_SINT_16 | | | |
| ✓ Festo_CPX:I.Data | | | SINT[16] | | | |
| ▶ Festo_CPX:I.Data[0] | | | SINT | #0: FB36 - (I0)-LB | | |
| Festo_CPX:I.Data[1] | | | SINT | #0: FB36 - (I0)-HB | | |
| Festo_CPX:I.Data[2] | | | SINT | #1: VTSA-CB-Z - (I0-7) | | |
| Festo_CPX:I.Data[3] | | | SINT | #1: VTSA-CB-Z - (I8-15) | | |
| Festo_CPX:I.Data[4] | | | SINT | #1: VTSA-CB-Z - (116-23 | | |
| Festo_CPX:I.Data[5] | | | SINT | #2: VABV-1Q-CB - (10-7) | | |
| Festo_CPX:I.Data[6] | | | SINT | #3: VABV-12HS-T5 - (I0- | | |
| Festo_CPX:I.Data[7] | | | SINT | #4: VABF-CB1 - (I0-7) | | |
| Festo_CPX:I.Data[8] | | | SINT | #4: VABF-CB1 - (I8-15) | | |
| Festo_CPX:I.Data[9] | | | SINT | #4: VABF-CB1 - (I16-23) | | |
| Festo_CPX:I.Data[10] | | | SINT | #5: VABV-2HS-T5 - (I0-7 | | |
| ▶ Festo_CPX:I.Data[11] | | | SINT | #6: VABF-V2B1-CB - (10) | | |
| Festo_CPX:I.Data[12] | | | SINT | #6: VABF-V2B1-CB - (11) | | |
| Festo_CPX:I.Data[13] | | | SINT | #6: VABF-V2B1-CB - (I2) | | |
| Festo_CPX:I.Data[14] | | | SINT | #6: VABF-V2B1-CB - (I3) | | |
| Festo_CPX:I.Data[15] | | | SINT | #6: VABF-V2B1-CB - (I4) | | |
| | Scope: WorkingProject Show: All Tags Name > Festo_CPX:C > Festo_CPX:I > Festo_CPX:I.Data > Festo_CPX:I.Data[0] > Festo_CPX:I.Data[1] > Festo_CPX:I.Data[2] > Festo_CPX:I.Data[3] > Festo_CPX:I.Data[4] > Festo_CPX:I.Data[5] > Festo_CPX:I.Data[6] > Festo_CPX:I.Data[8] > Festo_CPX:I.Data[10] > Festo_CPX:I.Data[11] . Festo_CPX:I.Data[12] . Festo_CPX:I.Data[13] . Festo_CPX:I.Data[13] . Festo_CPX:I.Data[14] | Scope: WorkingProject Show: All Tags Name Image: Alias For > Festo_CPX:C Image: Image: > Festo_CPX:I.Data Image: Image: > Festo_CPX:I.Data Image: Image: > Festo_CPX:I.Data[0] Image: Image: > Festo_CPX:I.Data[1] Image: Image: > Festo_CPX:I.Data[2] Image: Image: > Festo_CPX:I.Data[3] Image: Image: > Festo_CPX:I.Data[3] Image: Image: > Festo_CPX:I.Data[3] Image: Image: > Festo_CPX:I.Data[4] Image: Image: > Festo_CPX:I.Data[5] Image: Image: Image: > Festo_CPX:I.Data[6] Image: Image: Image: > Festo_CPX:I.Data[7] Image: Image: Image: > Festo_CPX:I.Data[10] Image: Image: Image: > Festo_CPX:I.Data[12] Image: Image: Image: Image: <td>Scope: @WorkingProject Show: All Tags Name Image Alias For Base Tag > Festo_CPX:C Image Alias For Base Tag - Festo_CPX:I Image Image Image Image Image - Festo_CPX:I.Data Image Image</td> <td>Scope: WorkingProject Show: Al Tags Name Base Tag Data Type Alias For Base Tag Data Type Abits Alias For Base Tag Data Type Abits Festo_CPX:L Abits Structure Abits Base Tag Data Type Abits Festo_CPX:LData Sint Sint Sint Sint Abits Festo_CPX:LData[3] Sint Sint Sint Abits Festo_CPX:LData[6] Sint Sint Sint Abits Festo_CPX:LData[6] Sint Sint Sint Abits Festo_CPX:LData[9] Sint Sint Sint Abits Festo_CPX:LData[10]</td> | Scope: @WorkingProject Show: All Tags Name Image Alias For Base Tag > Festo_CPX:C Image Alias For Base Tag - Festo_CPX:I Image Image Image Image Image - Festo_CPX:I.Data Image Image | Scope: WorkingProject Show: Al Tags Name Base Tag Data Type Alias For Base Tag Data Type Abits Alias For Base Tag Data Type Abits Festo_CPX:L Abits Structure Abits Base Tag Data Type Abits Festo_CPX:LData Sint Sint Sint Sint Abits Festo_CPX:LData[3] Sint Sint Sint Abits Festo_CPX:LData[6] Sint Sint Sint Abits Festo_CPX:LData[6] Sint Sint Sint Abits Festo_CPX:LData[9] Sint Sint Sint Abits Festo_CPX:LData[10] | | |



CPX | VTSA-CB configuration for FB36

Terminal configuration

| Controller Tags - WorkingProject(controller) × | | | | | |
|--|-----------------------|-------------|----------------------------|----------------------------|------------------------|
| Scope: 🗐 WorkingProject 👻 Show: All Tags | | | 🗸 🏹 Enter Name Fi | iter | |
| Name | <u>_</u> ∎ ▲ Alias F | or Base Tag | Data Type | Description | |
| ▲ Festo_CPX:O | | | AB:ETHERNET_MODULE_SINT_16 | | |
| Festo_CPX:O.Data | | | SINT[16] | | |
| Festo_CPX:O.Data[0] | | | SINT | #0: FB36 - (O1)-LB | |
| Festo_CPX:O.Data[1] | | | SINT | #0: FB36 - (O1)-HB | |
| Festo_CPX:O.Data[2] | | | SINT | #1: VTSA-CB-Z - (O24-31) | |
| Festo_CPX:O.Data[3] | | | SINT | #1: VTSA-CB-Z - (O32-39) | |
| Festo_CPX:O.Data[4] | | | SINT | #1: VTSA-CB-Z - (O40-47) | Soft Start Valve (Z1) |
| Festo_CPX:O.Data[5] | | | SINT | #2: VABV-1Q-CB - (08-15) | |
| Festo_CPX:O.Data[6] | | | SINT | #3: VABV-12HS-T5 - (O8-15) | Pilot Air (Z0) |
| Festo_CPX:O.Data[7] | | | SINT | #4: VABF-CB1 - (O24-31) | Address Extension (Z2) |
| Festo_CPX:O.Data[8] | | | SINT | #4: VABF-CB1 - (O32-39) | |
| Festo_CPX:O.Data[9] | | | SINT | #4: VABF-CB1 - (O40-47) | |
| Festo_CPX:O.Data[10] | | | SINT | #5: VABV-2HS-T5 - (08-15) | Pilot Air (Z2) |
| Festo_CPX:O.Data[11] | | | SINT | #6: VABF-V2B1-CB - (O5) | Vacuum Ejector (Z2) |
| Festo_CPX:O.Data[12] | | | SINT | #6: VABF-V2B1-CB - (O6) | |
| Festo_CPX:O.Data[13] | | | SINT | #6: VABF-V2B1-CB - (O7) | |
| Festo_CPX:O.Data[14] | | | SINT | #6: VABF-V2B1-CB - (O8) | |
| Festo_CPX:O.Data[15] | | | SINT | #6: VABF-V2B1-CB - (O9) | |

Created: 10/6/2020