

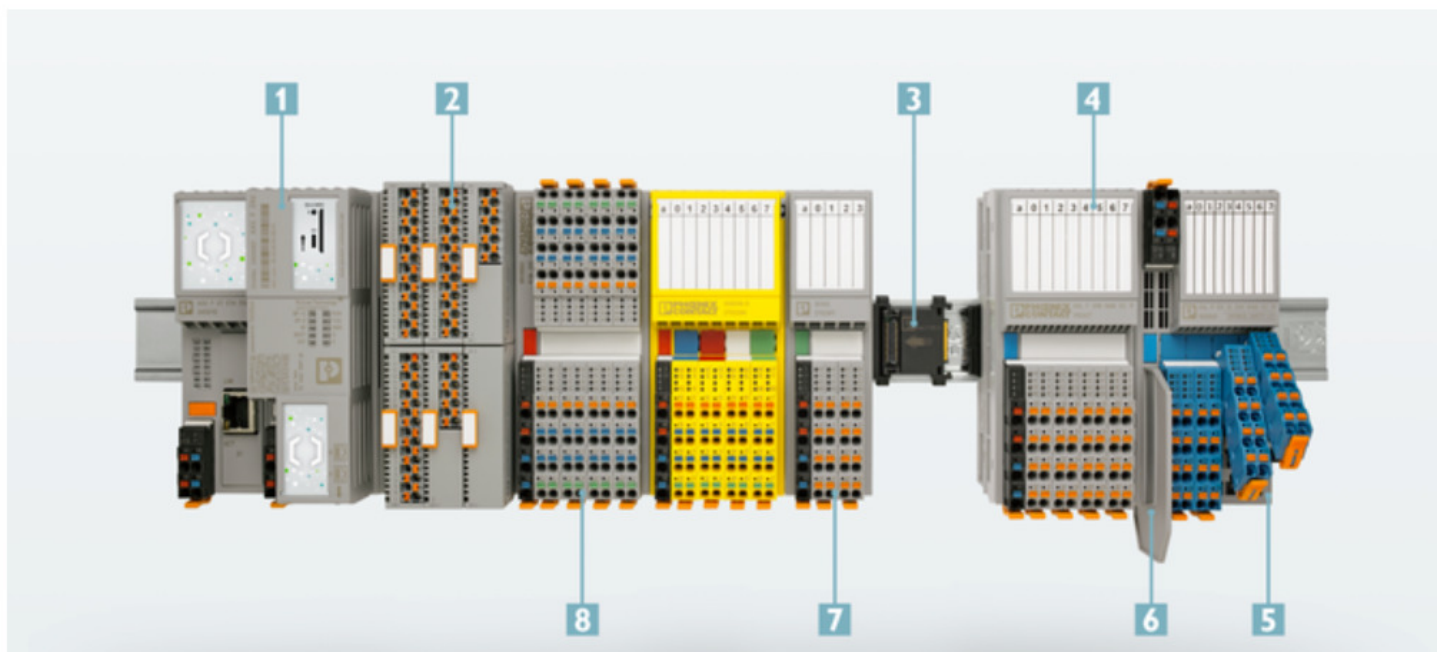
# Axioline F – the block-based modular I/O system

Axioline F is the block-based modular I/O system for the control cabinet. Open to all Ethernet-based communication protocols and available in various designs, Axioline F offers maximum flexibility.

## Your advantages

- ✓ Increased machine output with particularly fast and synchronous signal acquisition
- ✓ Particularly robust mechanical design as well as shock and vibration resistance withstand even the most adverse conditions and increase system availability
- ✓ Installation time is reduced by fast wiring and easy handling
- ✓ A wide choice of I/O modules enables numerous different station structures and greater flexibility
- ✓ The Axioline F I/O system is part of the COMPLETE line system

## Axioline F – the specialist in the control cabinet



1	Optimum connectivity via PLCnext Control or bus coupler
2	Can be easily combined with Axioline Smart Elements
3	Increased system availability is ensured by the particularly robust mechanical design as well as shock and vibration resistance
4	Tool-free installation enables quick and easy station setup
5	Plug-in I/O connection for all standard Axioline F modules
6	Standard and intrinsically safe I/O modules can be directly combined
7	Consistent use of Push-in connection technology
8	Fast and intuitive wiring with color-coded contact points, even in the case of multi-conductor connection

**I/O module - AXL F IOL8 2H - 1027843**

Axioline F, IO-Link master, IO-Link ports Class A: 8, connection method: Push-in connection, connection technology: 3-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DI8/2 24DC 1F - 2702783**

Axioline F, Digital Input module, Digital inputs: 8, 24 V DC, connection technology: 2-conductor, corresponds to standard IEC 61850-3, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DI16/1 1H - 2688310**

Axioline F, Digital input module, Digital inputs: 16, 24 V DC, connection technology: 1-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DI16/4 2F - 2688022**

Axioline F, Digital input module, Digital inputs: 16, 24 V DC, connection technology: 4-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DI32/1 1F - 2688035**

Axioline F, Digital input module, Digital inputs: 32, 24 V DC, connection technology: 1-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DI16/4 XC 2F - 2701224**

Axioline F XC, Digital input module, Digital inputs: 16, 24 V DC, connection technology: 4-conductor, Extreme conditions version, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DI64/1 2F - 2701450**

Axioline F, Digital input module, Digital inputs: 64, 24 V DC, connection technology: 1-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DO16/1 1H - 2688349**

Axioline F, Digital output module, Digital outputs: 16, 24 V DC, connection technology: 1-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DO16/3 2F - 2688048**

Axioline F, Digital output module, Digital outputs: 16, 24 V DC, connection technology: 3-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DO16/3 XC 2F - 2701228**

Axioline F XC, Digital output module, Digital outputs: 16, 24 V DC, connection technology: 3-conductor, Extreme conditions version, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DO4/3 AC 1F - 2702068**

Axioline F, Digital output module, Digital outputs: 4 (Triac outputs with zero voltage switch), 230 V AC, connection technology: 3-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DI8/1 DO8/1 1H - 2701916**

Axioline F, Digital I/O module, Digital inputs: 8, 24 V DC, connection technology: 1-conductor, Digital outputs: 8, 24 V DC, 500 mA, connection technology: 1-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

**I/O module - AXL F DI8/3 DO8/3 2H - 2702071**

Axioline F, Digital I/O module, Digital inputs: 8, 24 V DC, connection technology: 3-conductor, Digital outputs: 8, 24 V DC, 500 mA, connection technology: 3-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

**I/O module - AXL F DI8/2 48/60DC 1F - 2702654**

Axioline F, Digital Input module, Digital inputs: 8, 48 V DC / 60 V DC, connection technology: 2-conductor, corresponds to standard IEC 61850-3, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DI8/2 110/220DC 1F - 2700684**

Axioline F, Digital Input module, Digital inputs: 8, 110 V DC / 220 V DC, connection technology: 2-conductor, corresponds to standard IEC 61850-3, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DI16/1 HS 1H - 2701722**

Axioline F, Digital input module, Digital inputs: 16, 24 V DC, connection technology: 1-conductor, Input filter time < 5 µs, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DI16/1 DO8/2-2A 2H - 2702291**

Axioline F, Digital I/O module, Digital inputs: 16, 24 V DC, connection technology: 1-conductor, Digital outputs: 8, 24 V DC, 2 A, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

**I/O module - AXL F DI32/1 2H - 2702052**

Axioline F, Digital input module, Digital inputs: 32, 24 V DC, connection technology: 1-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DI32/1 XC 1F - 2701226**

Axioline F XC, Digital input module, Digital inputs: 32, 24 V DC, connection technology: 1-conductor, Extreme conditions version, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DO8/2 2A 1H - 2688381**

Axioline F, Digital output module, Digital outputs: 8, 24 V DC, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DO16 FLK 1H - 2701813**

Axioline F, Digital output module, Digital outputs: 16, 24 V DC, connection technology: FLK connector (20-pos. ), transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connector

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**I/O module - AXL F DO32/1 1F - 2688051**

Axioline F, Digital output module, Digital outputs: 32, 24 V DC, connection technology: 1-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DO64/1 2F - 2702053**

Axioline F, Digital output module, Digital outputs: 64, 24 V DC, connection technology: 1-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DOR4/2 AC/220DC 1F - 2700680**

Axioline F, Relay module, Relay outputs: 4 (floating), N/O contact, 220 V DC, 230 V AC, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DO32/1 XC 1F - 2701230**

Axioline F XC, Digital output module, Digital outputs: 32, 24 V DC, connection technology: 1-conductor, Extreme conditions version, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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**I/O module - AXL F DI16/1 DO16/1 2H - 2702106**

Axioline F, Digital I/O module, Digital inputs: 16, 24 V DC, connection technology: 1-conductor, Digital outputs: 16, 24 V DC, 500 mA, connection technology: 1-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F AI4 I 1H - 2688491



Axioline F, Analog input module, Analog inputs: 4, 0 V ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection technology: 2-, 3-, 4-conductor, transmission speed in the local bus: 100 Mbps, integrated sensor supply, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F AI4 U 1H - 2688501



Axioline F, Analog input module, Analog inputs: 4, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, connection technology: 2-, 3-, 4-conductor, transmission speed in the local bus: 100 Mbps, integrated sensor supply, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F AI8 1F - 2688064



Axioline F, Analog input module, Analog inputs: 8, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F AO4 1H - 2688527



Axioline F, Analog output module, Analog outputs: 4, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F AI2 AO2 1H - 2702072



Axioline F, Analog I/O module, Analog inputs: 2, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection technology: 2-conductor, Analog outputs: 2, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F RTD8 1F - 2688077



Axioline F, Temperature recording module, Analog inputs: 8 (for resistance temperature detectors), connection technology: 2-, 3-, 4-conductor (shielded), transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F UTH4 1H - 2688598



Axioline F, Temperature recording module, Analog inputs: 4 (4 inputs for thermocouples or linear voltage, plus 1 input -5 V to +5 V), connection technology: 2-conductor (shielded, twisted pair), transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F RTD8 XC 1F - 2701235



Axioline F XC, Temperature recording module, Analog inputs: 8 (for resistance temperature detectors), connection technology: 2-, 3-, 4-conductor (shielded), transmission speed in the local bus: 100 Mbps, Extreme conditions version, degree of protection: IP20, including bus base module and Axioline F connectors

#### Communication module - AXL F IF CAN 1H - 2702668



Axioline F, interface module, CAN, transparent protocol, max. transmission speed of 1 Mbps, IP20 protection, including bus base module and Axioline F connectors

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#### Communication module - AXL F RS UNI XC 1H - 2702006



Axioline F XC, Communication module, Interface: RS-232, RS-485, RS-422, Extreme conditions version, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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#### I/O module - AXL F AO4 XC 1H - 2702153



Axioline F XC, Analog output module, Analog outputs: 4, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, Extreme conditions version, degree of protection: IP20, including bus base module and Axioline F connectors

#### Special function module - AXL F IMPULSE2 XC 1H - 2702655



Axioline F XC, Function module, 2 digital pulse interfaces for evaluating magnetostrictive position sensors with start/stop interface, Transmission speed in the local bus 100 MBIT/s, Degree of protection IP20, including bus base module and Axioline F connectors

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#### I/O module - AXL F AO8 XC 1F - 2701237



Axioline F XC, Analog output module, Analog outputs: 8, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, Extreme conditions version, degree of protection: IP20, including bus base module and Axioline F connectors

#### Special function module - AXL F PWM2 1H - 1007352



Axioline F, function module, pulse width modulation, transmission speed in local bus 100 Mbps, IP20 degree of protection, including bus base module and Axioline F male connectors

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#### I/O module - AXL F AI4 XC 1H - 2702007



Axioline F XC, Analog input module, Analog inputs: 4, 0 V ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection technology: 2-, 3-, 4-conductor, transmission speed in the local bus: 100 Mbps, integrated sensor supply, Extreme conditions version, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F AI4 U XC 1H - 2702008



Axioline F XC, Analog input module, Analog inputs: 4, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, connection technology: 2-, 3-, 4-conductor, transmission speed in the local bus: 100 Mbps, integrated sensor supply, Extreme conditions version, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F AI8 XC 1F - 2701232



Axioline F XC, Analog input module, Analog inputs: 8, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, Extreme conditions version, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F AO8 1F - 2688080



Axioline F, Analog output module, Analog outputs: 8, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F RTD4 1H - 2688556



Axioline F, Temperature recording module, Analog inputs: 4 (for resistance temperature detectors), connection technology: 2-, 3-, 4-conductor (shielded), transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F DI8/1 DO8/1 XC 1H - 2702017



Axioline F XC, Digital I/O module, Digital inputs: 8, 24 V DC, connection technology: 1-conductor, Digital outputs: 8, 24 V DC, 500 mA, connection technology: 1-conductor, Extreme conditions version, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F UTH8 1F - 2688417



Axioline F, Temperature recording module, Analog inputs: 8 (8 inputs for thermocouples or linear voltage, plus 1 input -5 V to +5 V), connection technology: 2-conductor (shielded, twisted pair), transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

#### Special function module - AXL F CNT2 INC2 1F - 2688093



Axioline F, Function module, Counter input for 24 V signals: 2, Incremental encoder inputs: 2, Symmetrical and asymmetrical encoders, Digital inputs: 8, 24 V DC, Digital outputs: 2, 24 V DC, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

#### Communication module - AXL F RS UNI 1H - 2688666



Axioline F, Communication module, Interface: RS-232, RS-485, RS-422, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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#### Special function module - AXL F SSI1 AO1 1H - 2688433



Axioline F function module, 1 SSI interface for absolute encoder, 1 analog output: 0 - 10 V,  $\pm 10$  V, 0 - 5 V,  $\pm 5$  V, 0 - 20 mA, 4 - 20 mA,  $\pm 20$  mA, 2-conductor connection technology (including bus base module and connectors)

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#### Power module - AXL F PWR 1H - 2688297



Axioline F, Power module for the logic supply  $U_{BUS}$ , max. 4 A, degree of protection: IP20, including bus base module and Axioline F connector

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#### Special function module - AXL F CNT2 INC2 XC 1F - 2701239



Axioline F XC, Function module, Counter Input for 24 V signals: 2, Incremental encoder Inputs: 2, Symmetrical and asymmetrical encoders, Digital inputs: 8, 24 V DC, Digital outputs: 2, 24 V DC, Extreme conditions version, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F UTH8 XC 1F - 2702464



Axioline F XC, Temperature recording module, Analog inputs: 8 (8 inputs for thermocouples or linear voltage, plus 1 input -5 V to +5 V), connection technology: 2-conductor (shielded, twisted pair), transmission speed in the local bus: 100 Mbps, Extreme conditions version, degree of protection: IP20, including bus base module and Axioline F connectors

#### Special function module - AXL F PM EF 1F - 2702671



Axioline F, power measurement module, input voltage: up to 400 V AC (phase/neutral) or 690 V AC (phase/phase), input current: up to 5 A AC, transmission speed in local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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#### I/O module - AXL F SGI2 1H - 2702911



Axioline F, Strain gauge capture module, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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#### I/O module - AXL F DO16/2 2H - 1027904



Axioline F, Digital output module, Digital outputs: 16, 24 V DC, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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#### I/O module - AXL F DO32/1 2H - 1004925



Axioline F, Digital output module, Digital outputs: 32, 24 V DC, connection technology: 1-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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#### I/O module - AXL F AI2 AO2 XC 1H - 1035429



Axioline F XC, Analog I/O module, Analog inputs: 2, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection technology: 2-conductor, Analog outputs: 2, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, Extreme conditions version, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F RTD4 XC 1H - 1035430



Axioline F XC, Temperature recording module, Analog inputs: 4 (for resistance temperature detectors), connection technology: 2-, 3-, 4-conductor (shielded), transmission speed in the local bus: 100 Mbps, Extreme conditions version, degree of protection: IP20, including bus base module and Axioline F connectors

#### I/O module - AXL F DO8/2 2A XC 1H - 1035427



Axioline F XC, Digital output module, Digital outputs: 8, 24 V DC, connection technology: 2-conductor, Extreme conditions version, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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## Axioline F and Axiocontrol



Axioline and Axiocontrol for a consistent PROFINET or Modbus/TCP solution



Simply add the I/O modules to our controller. With Axiocontrol and Axioline F, you can create a consistent solution for your automation tasks with PROFINET or [Modbus/TCP](#).

The Axiocontrol AXC 3050 compact controller controls moderate to complex automation tasks quickly and reliably. The Axiocontrol AXC 1050 small-scale controller operates as a PROFINET device and reduces the load on higher-level PROFINET controllers. It is ideal for controlling distributed I/O stations, and ensures a high level of availability thanks to the integrated UPS.

All Axiocontrol controllers can be extended seamlessly with up to 63 I/O modules from the Axioline F range.

## Axioline F for IEC 61850



IEC 61850 is extremely easy with Axioline F



As a particularly robust I/O system, Axioline F is the perfect solution for applications in the energy industry. You can now also use Axioline F for IEC 61850 applications, thanks to the bus coupler for IEC 61850 and the I/O modules for increased nominal voltages and corresponding electric strength. At the same time, you also benefit from easy handling and flexible station configuration.

- Startup without specific programming knowledge, thanks to easy parameterization
- Flexible and easy online access to the product via web interface
- Extra-low and low-voltage modules can be freely combined without insulation plates
- Interoperability of the Axioline F I/O system with IEC 61850 communication with all other devices



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