

Up to 64 I/O terminals can be operated directly at an I/O node. This means that up to 1020 I/O signals can be processed on site. This reduces the cost of wiring a machine or system.



Baumüller I/O components provide users with a wide range of modules for adapting to requirements in the best possible way. Industrially compatible signal types can be easily incorporated in the application for evaluation purposes.

The use of I/O islands means that the machine information can be recorded at their “origin”, transmitted to the PLC and processed.

### Couplers

Function	Typ
CANopen Coupler, Automatic Baud Rate	CK0000
CANopen Coupler, Sub-D 9-Pin	CK0001
CANopen Coupler	CK0002
EtherCAT Coupler, Standard I/O	ECK000

### Local/remote I/O moduls

The wiring of the input and output signals can occur either centralized to controllers or decentralized to the field bus couplers.

Terminals can be aligned with either bus couplers (CANopen and EtherCAT) or the **b maXX-controllerPLC** in a modular and scalable way, depending on what is required. A variety of modules are available.

The user can therefore implement the machine configuration easily and flexibly.



Series	Functions	Typ
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Digital input	2 digital inputs/24 V DC positive switching	DI2000
	2 digital inputs/24 V DC negative switching *	DI2001
	4 digital inputs/24 V DC positive switching	DI4000
	4 digital inputs/24 V DC negative switching *	DI4001
	8 digital inputs/24 V DC positive switching	DI8000
	16 digital inputs/24 V DC positive switching *	DI1600
	32 digital inputs/24 V DC positive switching *	DI3200
	2 digital inputs/120/230V AC	DI2023
Digital output	2 digital outputs, 24 V DC/2 A positive switching *	DO2020
	2 digital outputs, 24 V DC/0,5 A positive switching	DO2000
	2 digital outputs, 24 V DC/0,5 A negative switching *	DO2001
	4 digital outputs, 24 V DC/0,5 A positive switching	DO4000
	8 digital outputs, 24 V DC/0,5 A positive switching	DO8000
	16 digital outputs, 24 V DC/0,5 A positive switching *	DO1600
	32 digital outputs, 24 V DC/0,5 A positive switching *	DO3200
	2 digital outputs, 120/230V AC/0,5 A *	DO2023

	2 PWM outputs, 24 V DC, 0,1 A *	DO2P00
Relay modules	2 inverters 230 V AC/30 V DC *	DO2023
	2 normally closed contacts 230 V AC/30 V DC *	DO2123
Analog input	1 analoge input 4 to 20 mA *	AI1420
	2 analog inputs 4 to 20 mA	AI2420
	4 analog inputs 4 to 20 mA	AI4420
	1 analoge input 0 to +10 V DC	AI1010
	2 analog inputs 0 to +10 V DC	AI2010
	4 analog inputs 0 to +10 V DC	AI4010
	2 analog inputs for sensors , . PT 100, NI 1000 *	AI2PTO
	4 analog inputs for sensors. PT 100, NI 1000 *	AI4PTO
	2 analog inputs connection of thermal elements*	AI2TEO
	4 analog inputs connection of thermal elements*	AI4TEO
	1 analoge input -10 to +10 V DC *	AI1+/-10
	2 analog inputs -10 to +10 V DC *	AI2+/-10
	4 analog inputs -10 to +10 V DC *	AI4+/-10

Analog output	1 analog output 4 to 20 mA *	AO1420
	2 analog outputs 4 to 20 mA	AO2420
	4 analog outputs 4 to 20 mA	AO4420
	2 analog outputs 0 to +10 V DC	AO2010
	4 analog outputs 0 to +10 V DC	AO4010
	2 analog outputs -10 to +10 V DC *	AO2+/-10
	4 analog outputs -10 to +10 V DC *	AO4+/-10
Technology modules	Meter terminal	DK1112
	Serial interface RS 232 *	RS232C
	Serial interface RS 485/422 *	RS485C
	Serial interface SSI, 24 Bit *	SSIO24
	Step motor modle 24 VDC 1,5 A *	DO1ST0
Coupler	CANopen coupler, Automatic Baud Rate	CK0000
	CANopen coupler, Sub-D 9-Pin	CK0001
	CANopen coupler	CK0002
	EtherCAT coupler, Standard I/O	ECK000

\* in progress

## Safety I/O-Module

The **safety input bus terminal** is a digital input terminal for sensors with zero-potential contacts for 24 V DC. The bus terminal features four fault-proof inputs and fulfills the requirements of IEC 61508 SIL 3 and EN 954 Cat. 4.

The **safety output bus terminal** is a digital output terminal with four channels. It switches 24 V DC actuators with up to 2 A total current. If the bus terminal detects a fault, it switches off automatically (fail stop) and thus fulfills the requirements of IEC 61508 SIL 3 and EN 954 Cat. 4.



Series	Function	Typ
Safety Input	4 fault-proof inputs, 24 V DC *	SI4000
Safety Output	4 fault-proof outputs, 24 V DC *	SO4000

\* in progress