

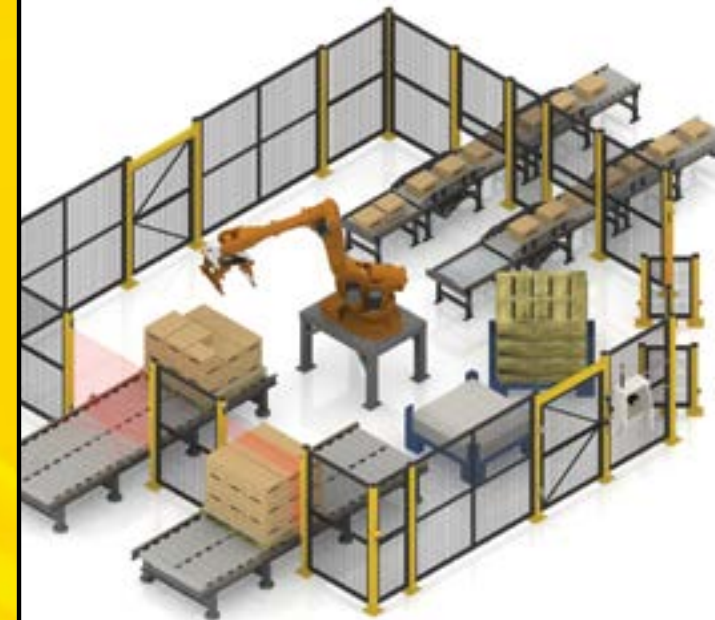
SC26-2



Programmable Safety Controller

SC26-2 Programmable Safety Controller: The next level in machine safety control.

- Intuitive programming environment for **easy implementation**
- Innovative **live display** feature and diagnostics assist in troubleshooting and commissioning
- Base controller **allows eight of the 26 inputs to be configured as outputs** for efficient terminal utilization
- **Software included**

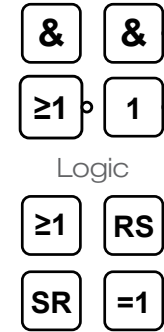
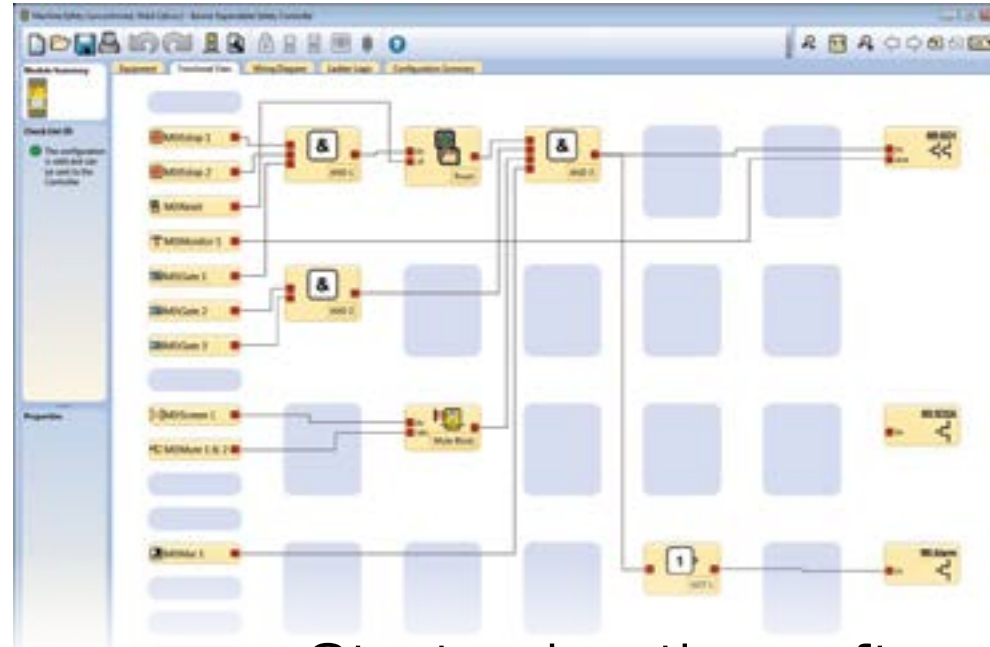
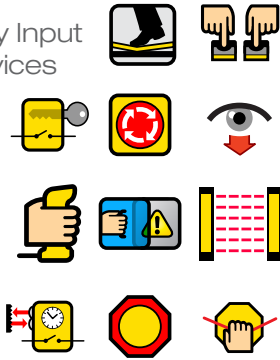




Programmable Safety Controller

The next level in machine safety control...

Safety Input Devices



Start using the software today
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Intuitive Software

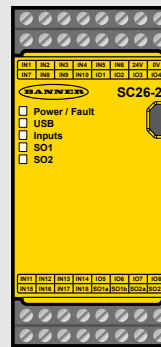
Specifications

Safety Outputs:
2 Dual-channel PNP

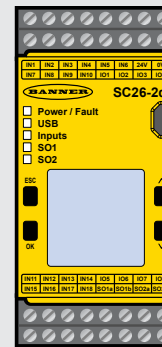
Supply Voltage:
24 V dc

Inputs/Outputs:
26 Safety or non-safety inputs;
8 can be configured as outputs

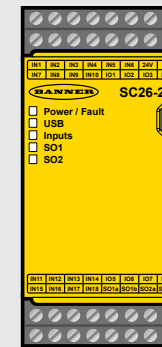
Performance Standards:
Category 4,
PL e per ISO 13849-1,
SIL CL 3 per IEC 62061,
SIL 3 per IEC 61508



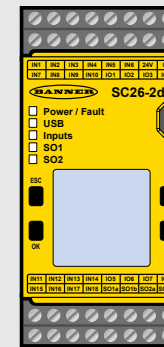
SC26-2



SC26-2d
Display



SC26-2e
Ethernet



SC26-2de
Display and Ethernet



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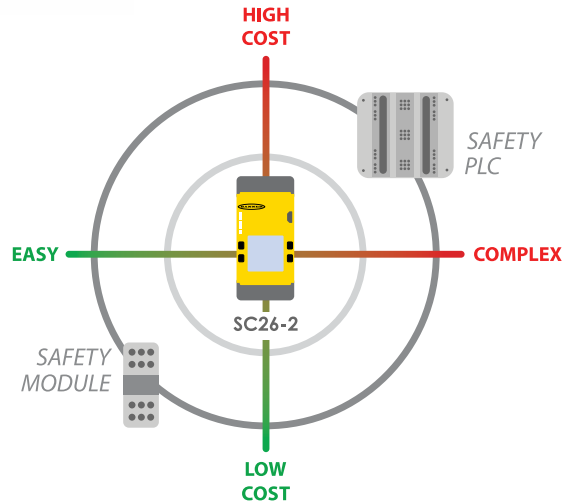
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more sensors, more solutions



Programmable Safety Controller



Target Equipment

- Welding stations
- Assembly machines
- Robotic automation
- End-of-line packaging equipment
- Safety retrofits



Supply Voltage	24 V dc \pm 20%, 100 mA exclusive of load (add 20 mA for display and 40 mA for Ethernet)
Housing	45 mm DIN mount, NEMA 1 (IEC IP20), plug-in terminals
Safety Outputs	2 Independent, dual-channel, PNP, 0.5 A max. @ 24 V dc
Inputs (and Convertible I/O used at inputs)	26 Safety or non-safety inputs, configurable for solid-state or contact-based inputs
Status Outputs (Convertible I/O used as Outputs)	8 PNP outputs 80 mA @ 24 V dc total
Ethernet Output	64 configurable status outputs, EtherNet/IP (with PCCC), Modbus/TCP
Performance Standards	Category 4, PL e per ISO 13849-1, SIL CL 3 per IEC 62061, SIL 3 per IEC 61508,

Accessories



SC-XM2
Memory Card



SC-XMP2
Programming Tool



SC-USB2
USB Cable



SC-TC2
Spring Terminal Block Set

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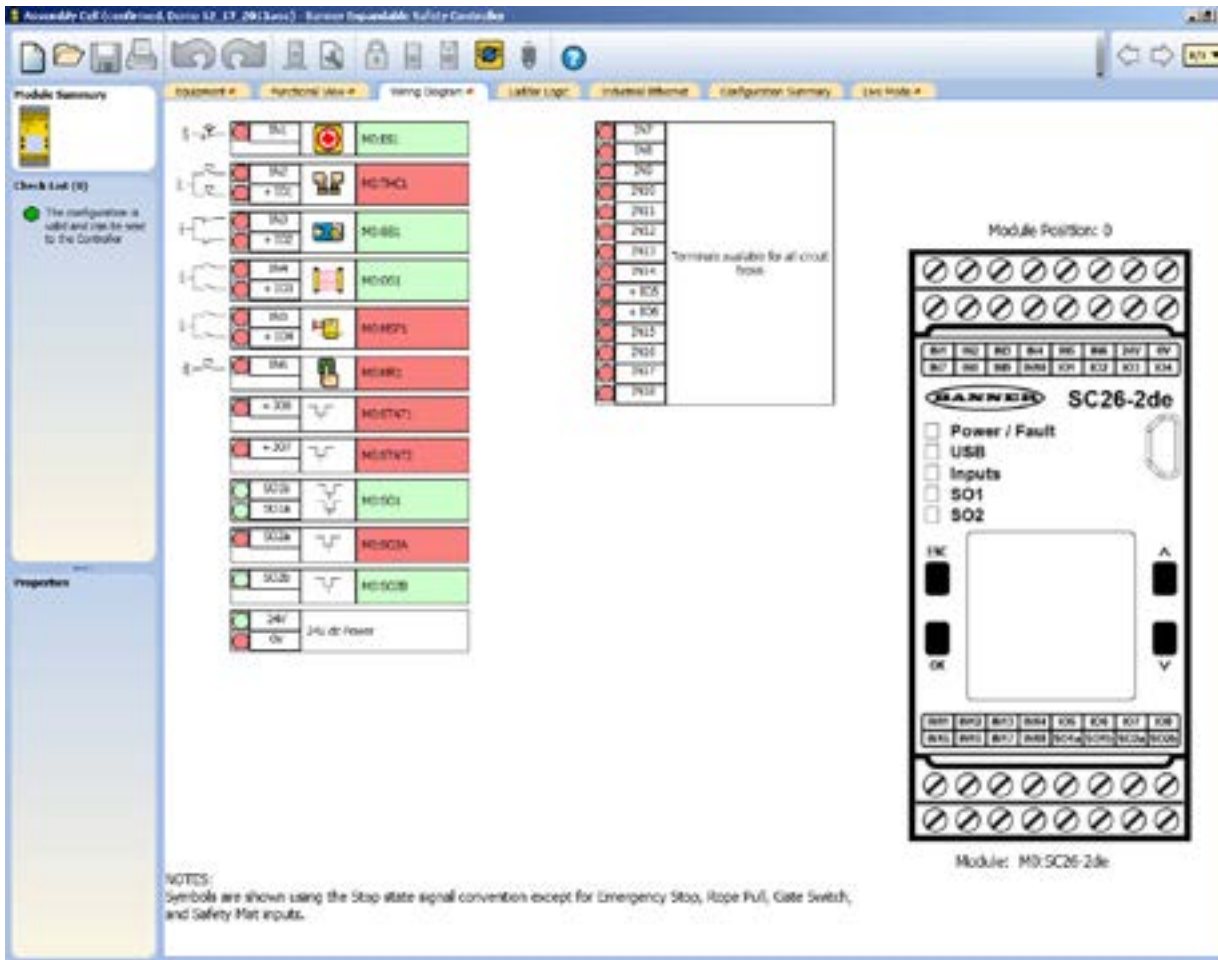
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Programmable Safety Controller



Shows the physical connection to the real world

Efficient use of terminals:

- Eight of the 26 inputs can be configured as outputs
- Terminals can be shared

Spring Clamp Terminal option

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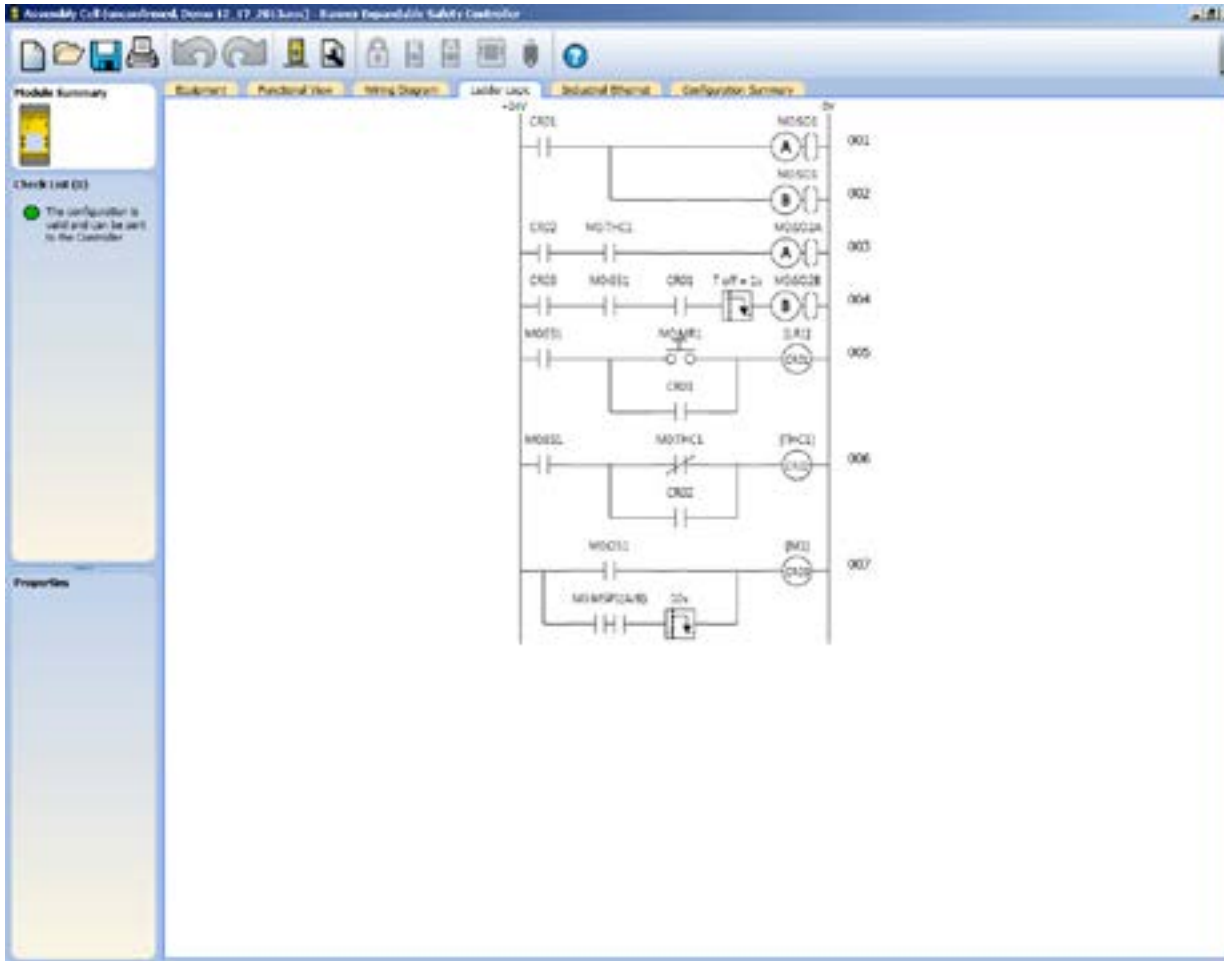
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Programmable Safety Controller

Ladder Logic



Provides a ladder logic representation of the controller configuration

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Programmable Safety Controller

Banner Engineering, Inc. Banner Programmable Safety Controller

Module Summary

Check Lock (3)

The configuration is valid and can be sent to the Controller.

Properties

Modbus/TCP Register Map for the Virtual Status Outputs

All registers are accessible as input registers (R0000) or holding registers (R0000)

VO Status	Function	Address	Bit/Hex Reg. Bit	Hex/Dec Reg. Bit	Bit/Hex (VOYT)	Fault Status
VO0	System Lockout	2000	0:0	8005	0:0	41
VO1	PLI/FELI event needed	3000	0:1			
VO2	Inputs of PE are needed	3000	0:2			
VO3	PLI/FOUR: Delay in Progress	2004	0:2			
VO5	Track Key Input Fault	3005	0:4			
VO6	MS-504 fault	3006	0:0			
VO7		3007	0:0			
VO8		3008	0:7			
VO9		3009	0:8			
VO10		3010	0:9			
VO11		3011	0:10			
VO12		3012	0:11			
VO13		3013	0:12			
VO14		3014	0:13			
VO15		3015	0:14			
VO16		3016	0:15			
VO17		3017	0:0			
VO18		3018	0:1			
VO19		3019	0:2			
VO20		3020	0:3			
VO21		3021	0:4			
VO22		3022	0:5			
VO23		3023	0:6			
VO24		3024	0:7			
VO25		3025	0:8			
VO26		3026	0:9			
VO27		3027	0:10			
VO28		3028	0:11			

* Refer to the Instruction Manual for column and row heading descriptions

Supports standard Industrial Ethernet protocols up to 64 outputs

The Ethernet outputs can automatically populate or are customizable

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Programmable Safety Controller

Configuration Summary

Assembly Cell (Assembly Room, 1000m 13, 17, 3903, Low) - Banner Programmable Safety Controller

Module Summary

Check List (3)

The configuration is valid and can be sent to the Controller.

Properties

M0:SC26-2de Inputs

Type: Emergency Stop Name: ESI Module: M0 Circuit Type: Single-Channel 2 terminal Terminals: I0 Sensitivity: Simultaneous Debounce Closed-Open: On Debounce Open-Closed: On Startup Test: Disabled Output: I0, THCI Safety Outputs: M0:SOA, M0:SOB, M0:SO3	Type: Two-Hand Control Name: THCI Module: M0 Circuit Type: Dual-Channel 2 terminal Terminals: I01, I02 Sensitivity: Simultaneous Debounce Closed-Open: On Debounce Open-Closed: On Startup Test: THCI Safety Outputs: M0:SOA	Type: Gate Switch Name: GS1 Module: M0 Circuit Type: Dual-Channel 2 terminal Terminals: I02, I03 Sensitivity: Simultaneous Debounce Closed-Open: On Debounce Open-Closed: On Startup Test: Disabled Output: K2 Safety Outputs: M0:SO3
Type: Optical Sensor Name: OI1 Module: M0 Circuit Type: Dual-Channel 2 terminal Terminals: I00, I04 Sensitivity: Simultaneous Debounce Closed-Open: On Debounce Open-Closed: On Startup Test: Disabled Output: M0 Safety Outputs: M0:SO3	Type: Pulling Sensor Pair Name: H0P1 Module: M0 Circuit Type: Dual-Channel 2 terminal Terminals: I04, I05 Debounce Closed-Open: On Debounce Open-Closed: On Output: M0 Safety Outputs: M0:SO3	Type: Manual Reset Name: MR1 Module: M0 Circuit Type: Single-Channel 1 terminal Terminals: I05 Reset Type: Momentary Output: I03 Safety Outputs: M0:SOA, M0:SO3

Function Blocks

Type: Latch Reset Block Name: LR1 Power-Up Mode: Normal Input: M0:SO1 Latch Reset: M0:MR1 Output: AC, M0:SO4	Type: THCI Block Name: THCI Startup Test: On Two-Hand Control: M0:THCI Sensitivity: M0:HS1 Input: M0:SO1 Output: M0:SO3	Type: Pulling Block Name: H0 Power-Up Mode: One-Pull Startup Test: On Power-On Power-Up: Disabled Input: M0:SO1 Power Sensor Test: M0:MR1 Output: AC	Type: And Name: A2 Input: LR1, M0:SO1, M1 Output: M0:SO3
---	--	---	---

Safety Outputs

Type: Solid State Output Name: SO1 Module: M0 Circuit Type: Solid State Output 2A Terminals: SO1A, SO1B Safety Output Delay: None Power-Up Mode: Normal Input: LR1	Type: Solid State Output Name: SO2A Module: M0 Circuit Type: Solid State Output 2A Terminals: SO2A Safety Output Delay: None Power-Up Mode: Normal Input: THCI	Type: Solid State Output Name: SO3B Module: M0 Circuit Type: Solid State Output 2A Terminals: SO3B Safety Output Delay: Off Delay Output Delay Accuracy: On Control Test: Do Not Control Power-Up Mode: Normal Input: K2
---	---	---

Response Times (Scan Time = 2ms)

* Warning: If you use a single channel input where a single fault can lead to an increased response time or an increase in PLC.
 ** Warning: Input or other signal path may cause the response time to depend on inputs timing delay, which cannot be depended upon for safety.

M0:SO1 M0:SO1 → 752ms M0:SO1 → 752ms	M0:SO2A M0:THCI → 22ms M0:SO1 → 752ms	M0:SO3B M0:SO1 → 752ms M0:SO1 → 331ms M0:SO1 → 331ms
---	--	---

Printable summary of the configuration including attribute details for each input, safety output and function block

Clear summaries of the response time for each safety output

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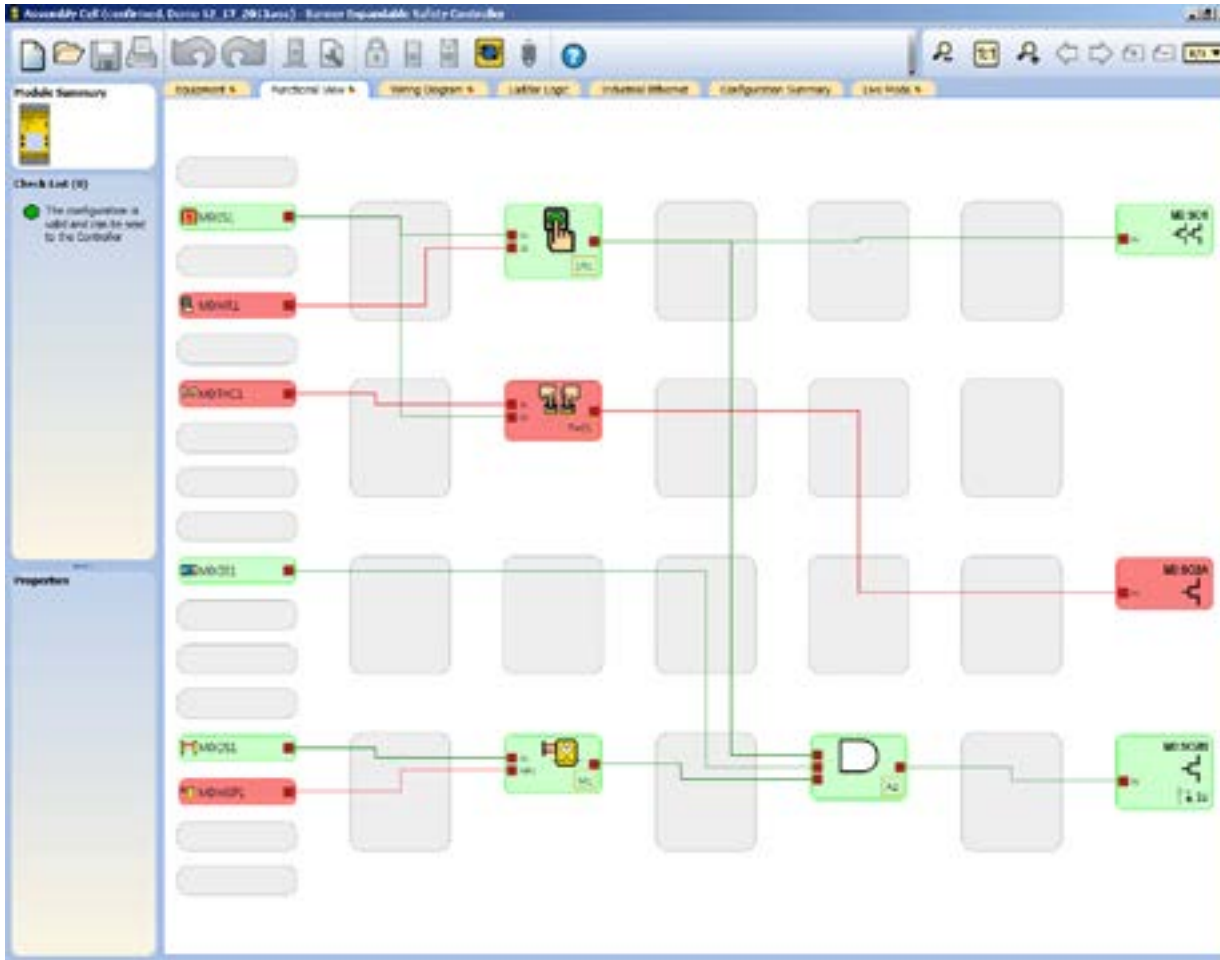
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Programmable Safety Controller

Live Mode



Real time feedback of the status of each output and input

Through color coding, trace how the logic flows in the function view, to assist in trouble shooting and commissioning the safety system

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Programmable Safety Controller

Link to data sheets

EB Series Lighted Emergency Stop Push Buttons
 30mm Mount Electro-Mechanical Push Buttons

- Rugged design, easy installation with no assembly or individual wiring required
- Push-to-stop, latched-to-release, or pull-to-release operation per IEC60947-5-5
- Lighting design complies with ISO 18650; direct (positive) opening operation per IEC 60947-5-1
- Compliant with ANSI B11.19, ANSI NFPA79, and ECEN 60204-1 Emergency Stop requirements
- "Safe Break Action" ensures N.C. contacts will open if the contact block is separated from the actuator
- 8-pin M12EuroStyle Quick Disconnect
- Includes with YELLOW and RED indication of activation (latched or depressed latched button)
- "Emergency Stop" legend included



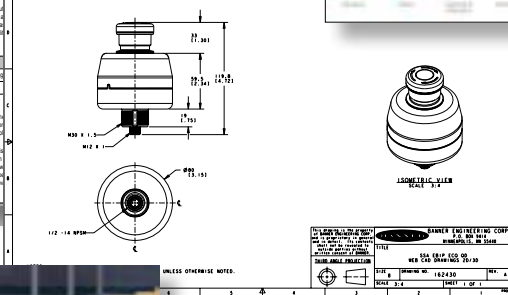
Link to catalog

Link to the Banner website



E-Stop Contacts	Indicators
D.N.C./N.O. E-Stop contacts	YELLOW & RED Flashing
D.N.C./N.O. E-Stop contacts	RED Flashing (Solid)

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