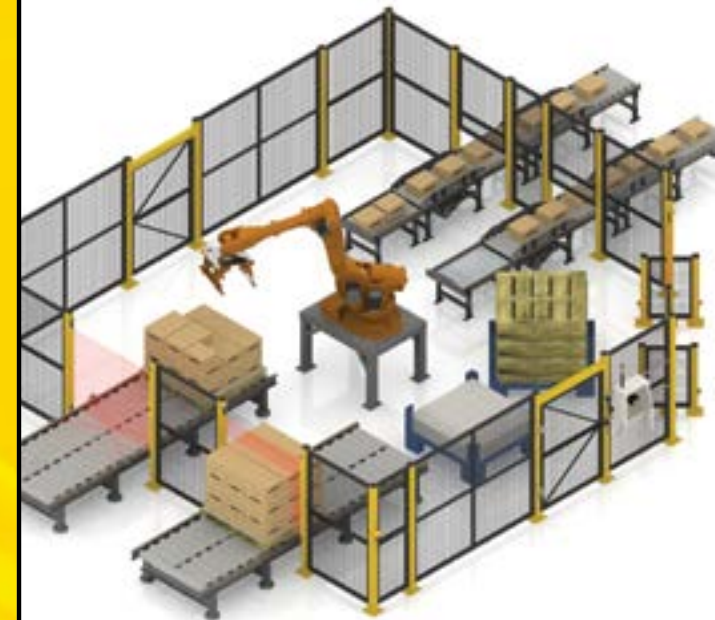




Programmable Safety Controller

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

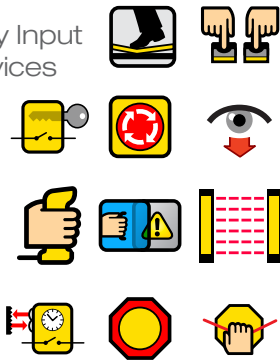
- Intuitive programming environment for **easy implementation**
- Innovative **live display** feature and diagnostics assist in troubleshooting and commissioning
- Base controller **allows eight of the 26 inputs to be configured as outputs** for efficient terminal utilization
- **Software included**



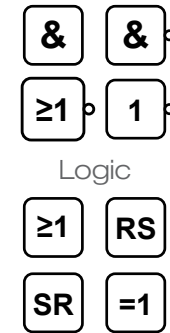
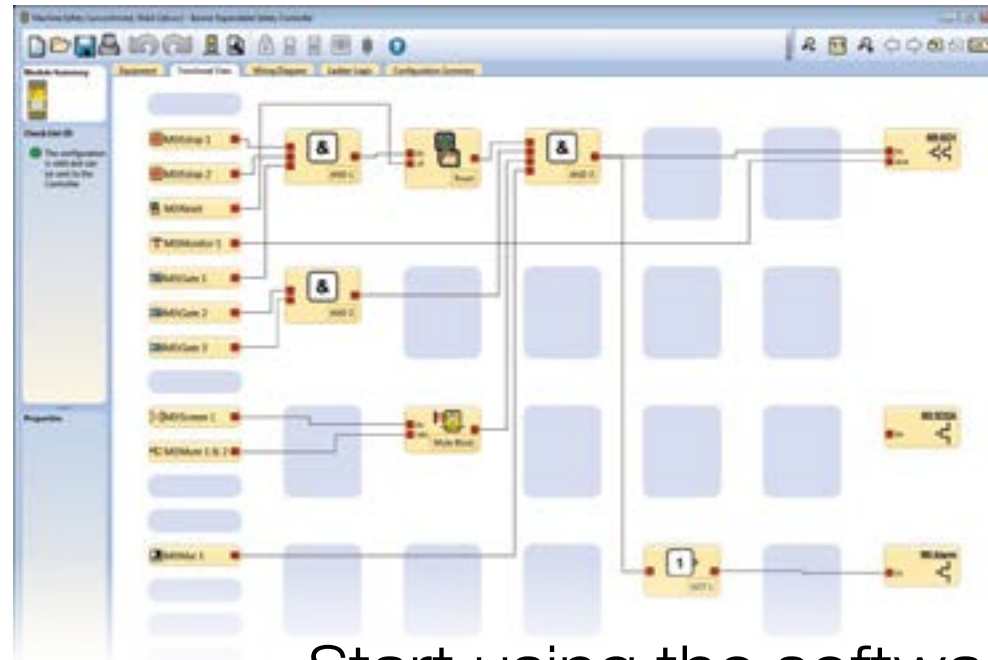


Programmable
Safety Controller

Safety Input
Devices



The next level in machine safety control...



Logic

Start using the software today
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Intuitive Software

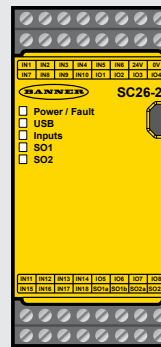
Specifications

Safety Outputs:
2 Dual-channel PNP

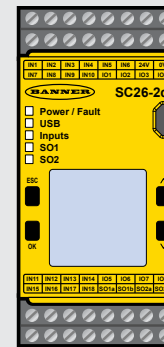
Supply Voltage:
24 V dc

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

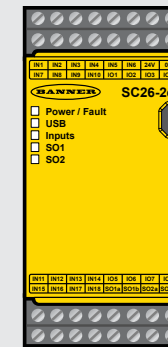
Performance Standards:
Category 4,
PL e per ISO 13849-1,
SIL CL 3 per IEC 62061,
SIL 3 per IEC 61508



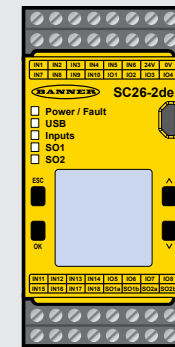
SC26-2



SC26-2d
Display



SC26-2e
Ethernet



SC26-2de
Display and Ethernet



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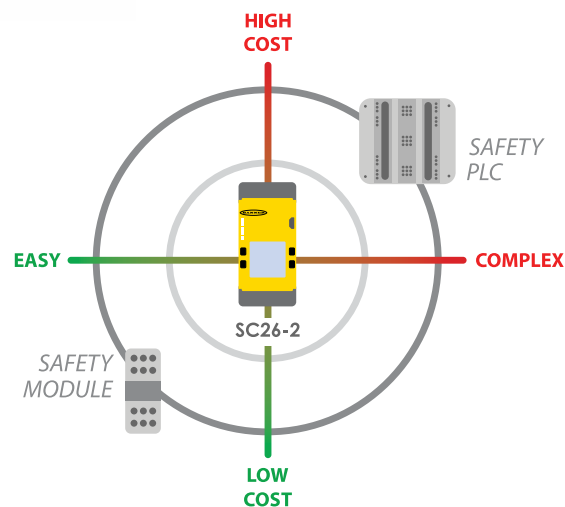
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Programmable Safety Controller



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,

Specifications

Accessories



SC-XM2
Memory Card



SC-XMP2
Programming Tool



SC-USB2
USB Cable



SC-TC2
Spring Terminal Block Set

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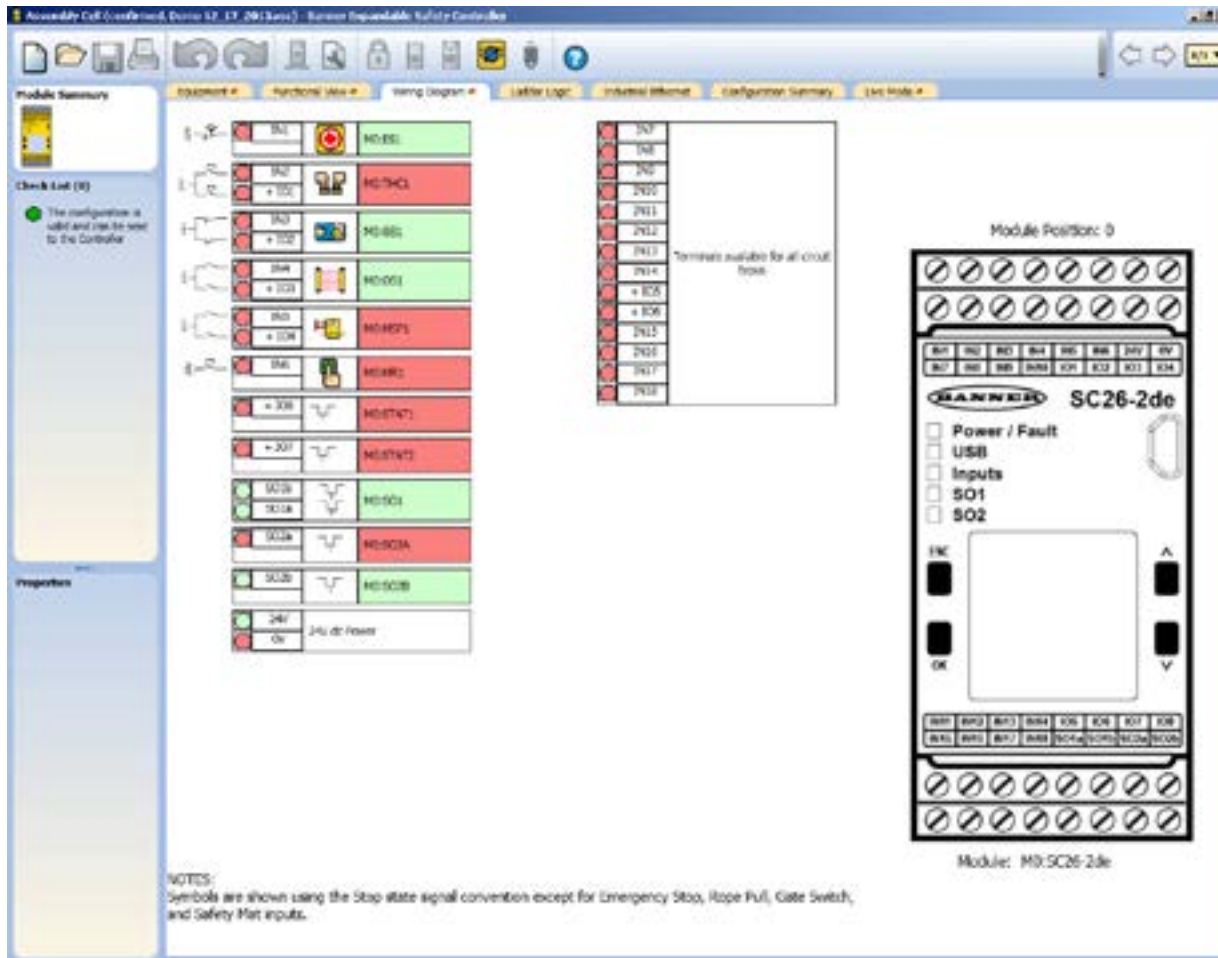
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Programmable Safety Controller

Wiring Diagram



Shows the physical connection to the real world

Efficient use of terminals:

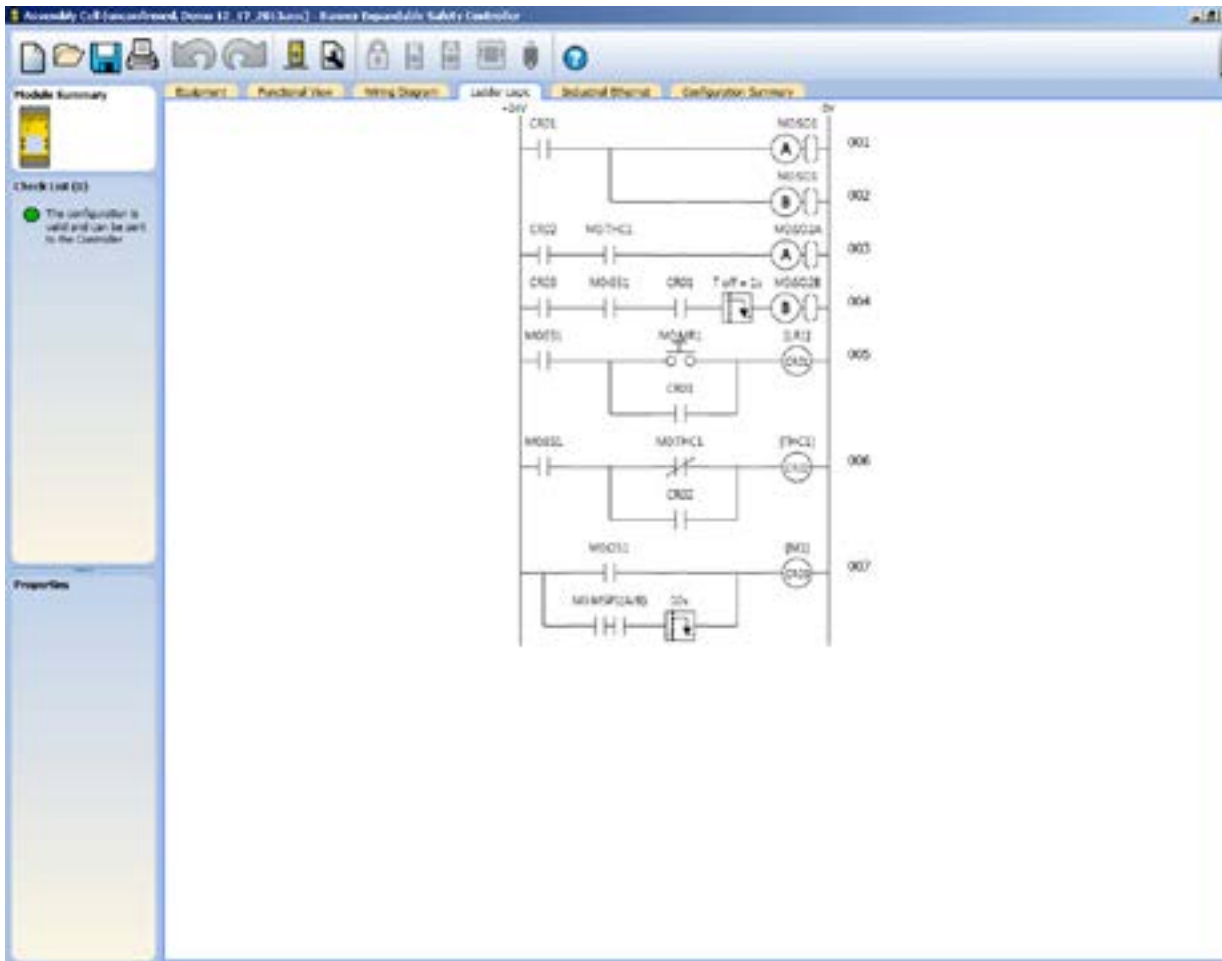
- Eight of the 26 inputs can be configured as outputs
- Terminals can be shared

Spring Clamp Terminal option



Programmable Safety Controller

Ladder Logic



Provides a ladder logic
representation of the
controller configuration

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Programmable Safety Controller

Industrial Ethernet

Banner Engineering, Inc. (Banner 177695) - Banner Programmable Safety Controller

Module Summary

Check Lock (X)

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

Properties

Module/TCP Register Map for the Virtual Status Outputs

All registers are available as input registers (X000) or holding registers (H000).

Virtual Output	Function	Address	IO/HA Reg. Bit	Outputs	IO/HA Reg. Bit	IO/HA Reg. Bit	IO/HA Reg. Bit
V00	System Lockout	0000	0.0	0000	0.0	42	
V01	PSI/PSI reset needed	0001	0.1				
V02	Inputs of PSI are muted	0002	0.2				
V03	PSI/PSI: Delay in Progress	0003	0.3				
V04	Track Any Input Fault	0004	0.4				
V05	PSI/PSI fault	0005	0.5				
V06		0006	0.6				
V07		0007	0.7				
V08		0008	0.8				
V09		0009	0.9				
V10		0010	1.0				
V11		0011	1.1				
V12		0012	1.2				
V13		0013	1.3				
V14		0014	1.4				
V15		0015	1.5				
V16		0016	1.6				
V17		0017	1.7				
V18		0018	1.8				
V19		0019	1.9				
V20		0020	2.0				
V21		0021	2.1				
V22		0022	2.2				
V23		0023	2.3				
V24		0024	2.4				
V25		0025	2.5				
V26		0026	2.6				
V27		0027	2.7				
V28		0028	2.8				
V29		0029	2.9				
V30		0030	3.0				

* 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

Accessory Card (Accessories) *Items 12, 17, 200, 201 - Banner Programmable Safety Controller

Module Summary

Check List (0)

The configuration is valid and can be sent to the Controller

Properties

M0:SC26-2de Inputs

Type:	Emergency Stop	Type:	Two-Hand Control	Type:	Gate Switch
Name:	ESC	Name:	THC1	Name:	GS1
Module:	NO	Module:	NO	Module:	NO
Circuit Type:	Single-Channel 2 terminal	Circuit Type:	Dual-Channel 2 terminal	Circuit Type:	Dual-Channel 2 terminal
Terminals:	NO	Terminals:	ESC, NO	Terminals:	ESC, NO
Security:	Safe Stop	Security:	Safe Stop	Security:	Safe Stop
Debounce Closed-Open:	Ons	Debounce Closed-Open:	Ons	Debounce Closed-Open:	Ons
Debounce Open-Closed:	Ons	Debounce Open-Closed:	Ons	Debounce Open-Closed:	Ons
Startup Time:	Disabled	Startup Time:	Disabled	Startup Time:	Disabled
Output:	NO, THC1	Output:	THC1	Output:	NO
Safety Outputs:	NO, NO2, NO, NO2A	Safety Outputs:	NO, NO2A	Safety Outputs:	NO, NO2A

Type:	Optical Sensor	Type:	Muting Sensor Pair	Type:	Manual Reset
Name:	OS1	Name:	MP1	Name:	MR1
Module:	NO	Module:	NO	Module:	NO
Circuit Type:	Dual-Channel 2 terminal	Circuit Type:	Dual-Channel 2 terminal	Circuit Type:	Single-Channel 1 terminal
Terminals:	NO, NO2	Terminals:	NO, NO2	Terminals:	MR1
Security:	Safe Stop	Security:	Safe Stop	Reset Type:	Reset
Debounce Closed-Open:	Ons	Debounce Closed-Open:	Ons	Output:	NO
Debounce Open-Closed:	Ons	Debounce Open-Closed:	Ons	Safety Outputs:	NO, NO2, NO, NO2A
Startup Time:	Disabled	Startup Time:	Disabled		
Output:	NO	Output:	NO, NO2A		
Safety Outputs:	NO, NO2A				

Function Blocks

Type:	Latch Reset Block	Type:	THC Block	Type:	Muting Block	Type:	And
Name:	LR1	Name:	THC1	Name:	MP1	Name:	AND
Power-Up Mode:	Normal	Muting Time:	1s	Muting Mode:	One-Pulse	Inputs:	LR1, NO, NO2, MR1
Input:	NO, NO2	Test Hand Control:	NO, THC1	Muting Time:	1s	Output:	NO, NO2A
Latch Reset:	NO, NO2	Stations:	NO, NO2	Mute On Power Up:	Disabled		
Output:	NO, NO2A	Input:	NO, NO2	Mute Sensor Time:	NO, NO2A		
		Output:	NO, NO2A	Output:	NO		

Safety Outputs

Type:	Safety Output	Type:	Safety Output	Type:	Safety Output
Name:	NO1	Name:	NO2A	Name:	NO2B
Module:	NO	Module:	NO	Module:	NO
Circuit Type:	Safety Output 2A	Circuit Type:	Safety Output 2A	Circuit Type:	Safety Output 2B
Terminals:	NO1A, NO1B	Terminals:	NO2A, NO2B	Terminals:	NO2B, NO2C
Safety Output Delay:	None	Safety Output Delay:	None	Safety Output Delay:	Off Delay
Power-Up Mode:	Normal	Power-Up Mode:	Normal	Power-Up Mode:	Normal
Input:	LR1	Input:	THC1	Input:	NO

Response Times (Scan Time = 2ms)

* Warning: If a single channel input where a single fault was used for an increased response time or an increased set point.

** Warning: Input or other output port may cause the response time to be dependent on the output or input.

Response Time	Response Time	Response Time
NO1, NO2A, NO2B	NO1, NO2A, NO2B	NO1, NO2A, NO2B
NO1, NO2A, NO2B	NO1, NO2A, NO2B	NO1, NO2A, NO2B
NO1, NO2A, NO2B	NO1, NO2A, NO2B	NO1, NO2A, NO2B

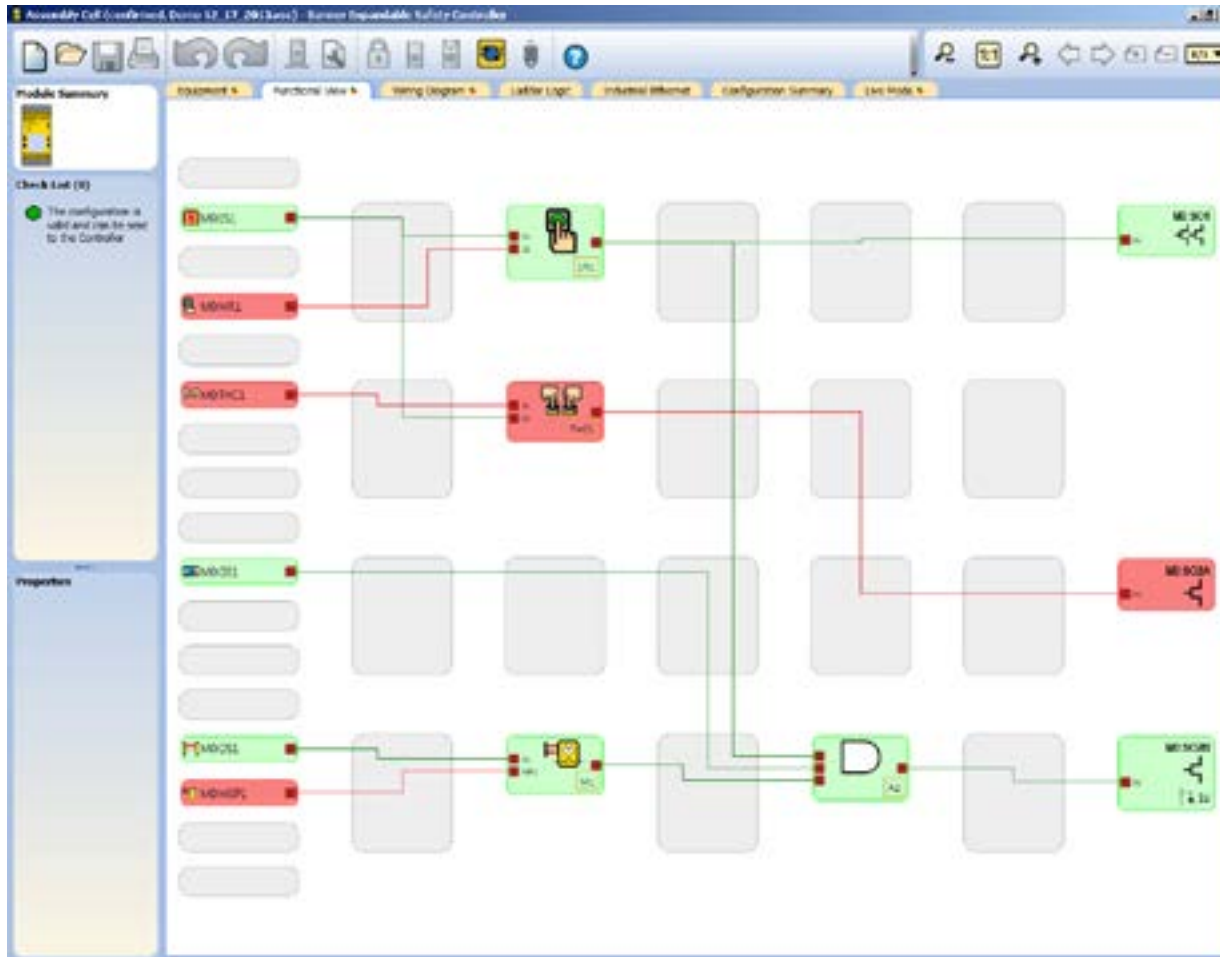
Printable summary of the configuration including attribute details for each input, safety output and function block

Clear summaries of the response time for each safety output



Programmable Safety Controller

Live Mode



Real time feedback of the status of each output and input

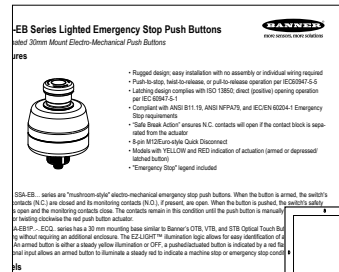
Through color coding, trace how the logic flows in the function view, to assist in trouble shooting and commissioning the safety system



Programmable
Safety Controller

Additional Resources

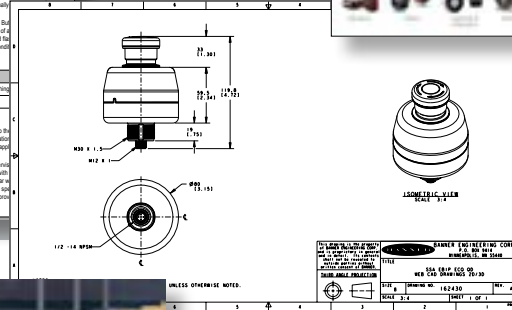
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