



Modicon MCM Basic

Basic safety controller



Modicon

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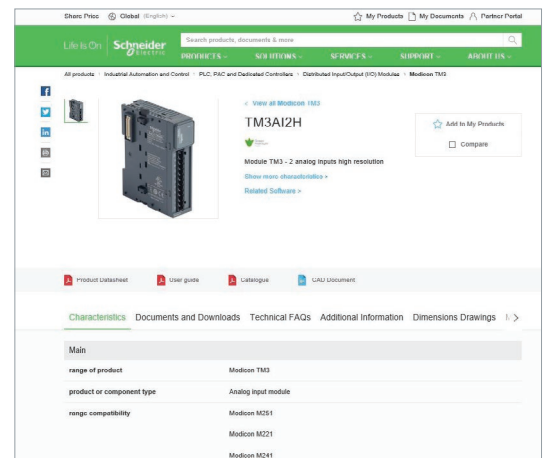
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References

Modicon TM3
I/O expansion modules for Modicon controllers
Analog I/O modules

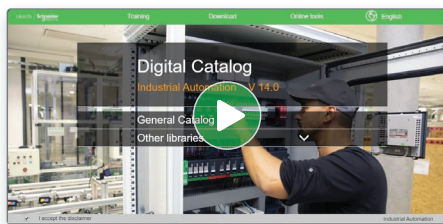
References	Input range	Resolution	Input terminal block (T)	Reference	Weight (kg)
2 voltage/current inputs	-10...+10 VDC 0...+10 VDC 0...20 mA / -20 mA	10 000 or 10 000 + sign	0 580.2	TM3A12H	0.130
4 voltage/current inputs	-10...+10 VDC 0...+10 VDC 0...20 mA / -20 mA	12 000 or 11 000 + sign	0 580.2	TM3A14	0.200
4 voltage/current or temperature inputs (I, J, K, R, S, E, T, N, E, C)	Thermopile (I) I, J, K, R, S, E, T, N, E, C Semiconductor (J) RTD (K, R, S, E, T, N, E, C) PT100 (PT100) 0...+10 VDC 0...20 mA / -20 mA	10 000 or 10 000 + sign	0 580.15	TM3A16	0.200
4 differential temperature inputs	Thermopile (I) I, J, K, R, S, E, T, N, E, C SEMiconductor (J) 0...+10 VDC 0...20 mA / -20 mA	10 000 or 10 000 + sign	0 580.15	TM3A18	0.200
4 voltage/current	-10...+10 VDC	12 000 or 11 000 + sign	0 580.15	TM3A18	0.200



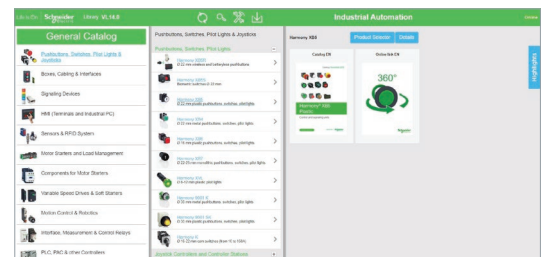
Each commercial reference presented in a catalog contains a hyperlink. Click on it to obtain the technical information of the product:

- Characteristics, Dimensions and drawings, Mounting and clearance, Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual

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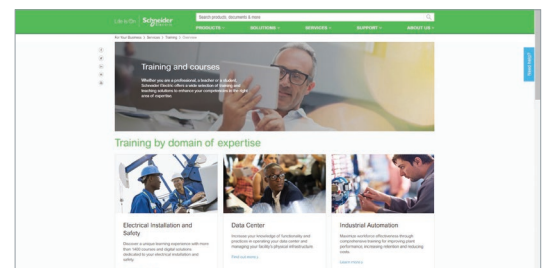


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Life Is On

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General content

Modicon MCM Basic

Basic safety controllers

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To be competitive in today's digital era, machine builders must be innovative. Smart machines, those that are better connected, more flexible, more efficient, and safe, are enabling machine builders to innovate in ways never before possible.

EcoStruxure, Schneider Electric's open, IoT-enabled architecture and platform, offers powerful solutions for the digital era. As part of this, EcoStruxure Machine brings powerful opportunities for machine builders and OEMs, empowering them to offer smart machines and compete in the new, digital era.

EcoStruxure Machine brings together key technologies for product connectivity and edge control on premises, and cloud technologies to provide analytics and digital services.

EcoStruxure Machine helps you bring more innovation and added value to your customers throughout the entire machine life cycle.

Innovation at Every Level for Machines is full systems across three layers:

- Connected products
Our connected products for measuring, actuating, device level monitoring, and control adhere to open standards to provide unmatched integration opportunities and flexibility
- Edge Control
We are IIoT-ready with a proven set of tested and validated reference architectures that enable the design of end-to-end open, connected, and interoperable systems based on industry standards. Ethernet and OPC UA facilitates IT/OT convergence meaning machine builders reap benefits from web interfaces and cloud.
- Apps, Analytics & Services
Seamless integration of machines to the IT layer allows the collection and aggregation of data ready for analysis – for machine builders and end users alike this means increased uptime and the ability to find information faster for more efficient operations and maintenance.

These levels are completely integrated from shop floor to top floor. And we have cloud offers and end-to-end cybersecurity wrapped around.

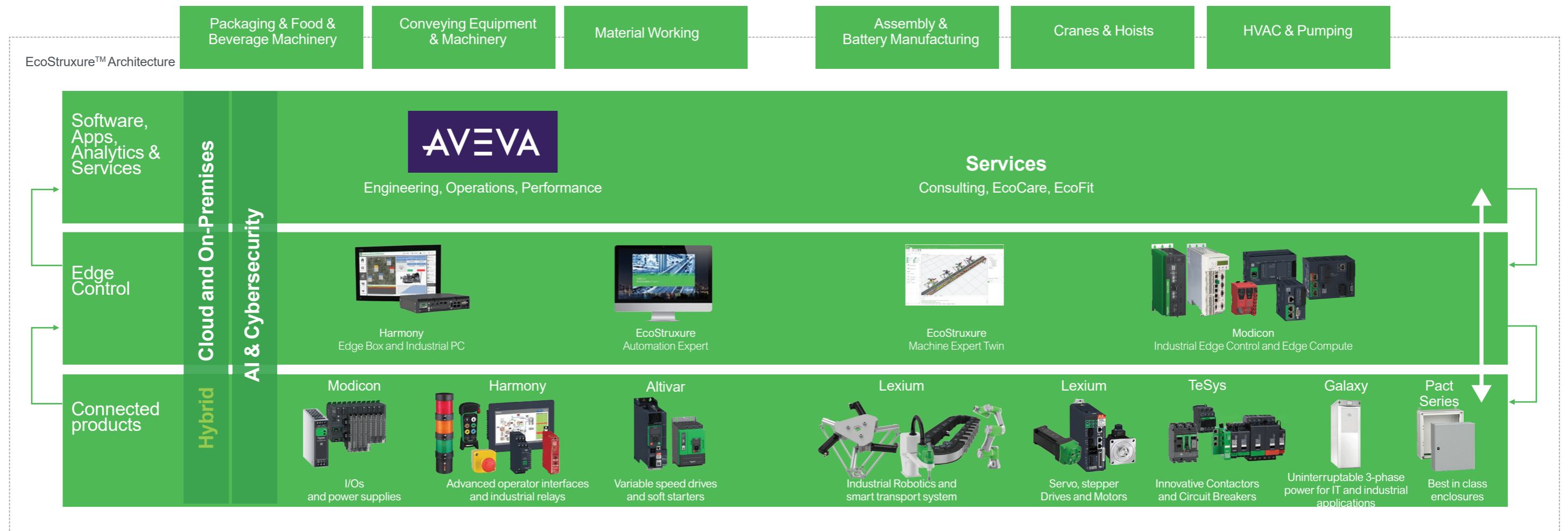
EcoStruxure Machine makes it easier for OEMs/machine builders to offer their customers smarter machines. The advent of smart machines is driven by the changing needs of end users:

- Evolving workforce
- Reducing costs
- Dynamic markets
- Shorter life cycles
- Prioritizing functional safety and cybersecurity

EcoStruxure Machine provides one solution for the whole machine life cycle:

- With Smart Design & Engineering the time to market is reduced by up to 30% using our automated engineering and the simulation capabilities
- During Commissioning & Operation of the machine, resources such as energy, material and loss can be improved, and with seamless integration to the IT world efficiency can be improved by up to 40%
- Smart Maintenance & Services reduces the time for corrective actions up to 50%

EcoStruxure™ Machine





Emergency Stop



Guard Monitoring



Perimeter Guarding



Position monitoring



Enabling movement

System applications

The Modicon MCM Basic safety controllers are designed to monitor all safety functions of a machinery or a plant allowing cost reductions and minimal wiring:

- > Emergency Stop
- > Guard Monitoring
- > Perimeter Guarding
- > Position monitoring
- > Enabling movement

The Modicon MCM Basic safety controller system provides numerous advantages compared to traditional safety modules, such as:

- > Reduces the number of devices used.
- > Speed-ups control panel construction.
- > All logic is configured through a graphic interface, no more wiring needed.
- > It is provided with intuitive software for logical configuration, offline simulation and online visualization, testing, and commissioning.

System description

Modicon MCM Basic standalone safety controller is a compact system composed of:

- > A safety controller used as a standalone device or together with external expansion output relays.
- > A configuration software: **SoSafe MCM Basic**

Software

The Modicon MCM Basic safety controllers are supported by **SoSafe MCM Basic**, a completely intuitive software.

It follows a simple drag and drop function block approach to configuration and is completed with a library of configurable safety functions and logical functions as well as easy-to-use tools for:

- > online configuration monitoring
- > offline simulation
- > configuration validator
- > hardware device scanner
- > printable schematics and documentation

SoSafe MCM Basic software supports a quick and easy setup of the machine. Configuration data is transferred to the safety controller (**XPSMCMCB1604SA** or **XPSMCMCB1604SAG**) via a USB Mini-B link (see [page 7](#)).



Modicon MCM Basic
standalone safety controller



SoSafe MCM Basic software

Modicon MCM Basic

Basic safety controller

Certification, Directives, and Standards

System certification

The Modicon MCM Basic safety controllers are certified by TÜV SÜD as meeting the industrial safety standards of Category 4, PL e according to ISO 13849-1 and SIL_{CL 3} according to IEC 61508 and IEC 60261.

Directives and standards

Modicon MCM Basic safety controllers comply with the following directives and standards:

Directives and standards	Subject
2006/42/EC	Machinery Directive
2004/108/EC	Electromagnetic Compatibility (EMC)
2006/95/EC	Low Voltage Directive (LVD)
IEC 61131-2	Industrial-process measurement and control – Programmable Controllers – Part 2: Equipment requirements and tests
IEC 61496-1 (Type 4)	Safety of machinery – Electro-sensitive protection equipment – Part 1: General requirements and tests
IEC 61508-1	Functional safety of electrical/electronic/programmable electronic safety-related systems – Part 1: General requirements
IEC 61508-2	Functional safety of electrical/electronic/programmable electronic safety-related systems – Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems
IEC 61508-3	Functional safety of electrical/electronic/programmable electronic safety-related systems – Part 3: Software requirements
IEC 61784-3	Industrial communication networks – Profiles – Part 3: Functional safety fieldbuses – General rules and profile definitions
IEC 62061	Safety of machinery – Functional safety of safety-related control systems
ISO 13849-1	Safety of machinery – Safety-related parts of control systems – Part 1: General principles for design
ISO 13849-2	Safety of machinery – Safety-related parts of control systems – Part 2: Validation
CE marking for Europe cULus marking for USA and Canada RCM marking for Australia UKCA marking for United Kingdom	

Modicon MCM Basic

Basic safety controller

Compact and configurable safety controller

Small projects, strong core

The Modicon MCM Basic is a configurable safety controller that can manage all the safety functions of simple machineries, and allowing tamper-proof system configurations. The benefits of a smaller number of devices are many: the overall size of the project remains contained and the construction of the control panel is fast. All logic being configured through a graphic interface, no more laborious wiring is needed as with traditional solutions. Less electromechanical components also means a better performance level, and, therefore, a higher safety level.

- > It embeds 16 safety digital inputs, 4 OSSD pairs, 4 status outputs. It is an appropriate solution for machines with a small number of safety functions requiring the configuration flexibility of a safety controller.
- > The Basic safety controller can be used as standalone and also with external output relays (1)
- > The project report provides the actual values of PFH, DCavg, and MTTFd according to ISO 13849-1 and IEC 62061.



The controller provides the following inputs and outputs:

- 16 safety-related inputs
- 4 independent configurable restart/EDM (External Device Monitoring) inputs
- 4 independent dual-channel solid-state safety-related outputs (OSSD) (400mA)
- 4 SIL 1/PL c status outputs (PNP 100mA)
- 4 test outputs
- 64 logical operators

The Modicon MCM Basic safety controller can be used with hard-wired external safety relays. See capabilities in the table below:

Number of supported output relays

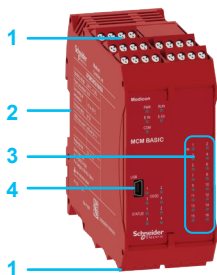
	XPSMCMER0002 XPSMCMER0002G	XPSMCMER0004 XPSMCMER0004G	XPSMCMER0008 XPSMCMER0008G
Safety relays with guided contacts	2	4	8
NO contacts	2	4	8
NC contacts	1	2	4
NC contact for external device monitoring (EDM) feedback	1	2	4

Key figures of Modicon MCM Basic system

- > The Basic safety controller has a short-form, compact design: its dimensions are 45 mm wide x 99 mm high x 114.5 mm deep (1.8 x 3.9 x 4.51 in).
- > The Basic safety controller is red colored and equipped with:
 - 1 Removable spring or screw-type terminal blocks (2) for connecting the safety channels and/or the power supply
 - 2 L-shaped symmetrical rail locking clip
 - 3 LEDs displaying the status (I/O, power supply, reset, ...)
 - 4 USB Mini-B 2.0 connector for configuration



Safety relay output module (1)



(1) Consult catalog Ref. [DIA3ED2140901EN](#)

(2) Modicon MCM Basic safety controller reference ending with a "G" is equipped with a spring clamp terminal block: XPSMCMCB1604SAG.

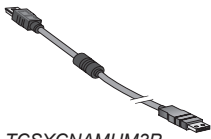
Modicon MCM Basic Basic safety controller Configurable controller and accessory



MCM Basic safety controller,
screw-type terminal block



MCM Basic safety controller,
spring-type terminal block



TCSXCNAMUM3P

Basic safety controllers

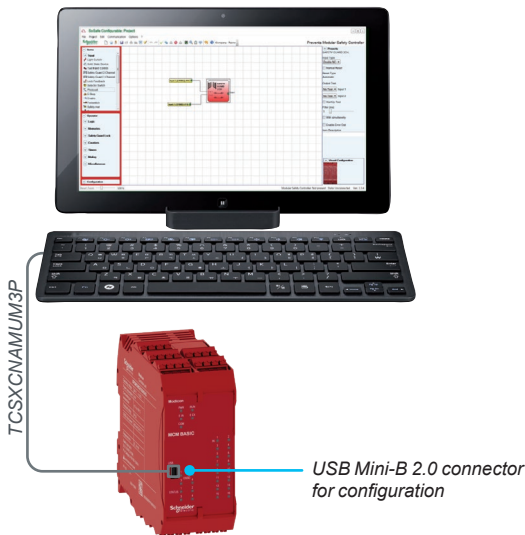
Description	Application	Reference	Weight kg/lb
Basic safety controller with screw-type terminal block	Emergency stop, guard monitoring, perimeter guarding, position monitoring, enabling movement	XPSMCMCB1604SA	0.250 0.551
Basic safety controller with spring-type terminal block		XPSMCMCB1604SAG	0.250 0.551

Accessory

Description	Application	Length	Reference	Weight kg/lb
Configuration cable	For software configuration, between a PC and the Basic safety controllers. Equipped with 2x USB connectors: USB A and USB mini B	3 m/9.84 ft	TCSXCNAMUM3P	0.065 0.143

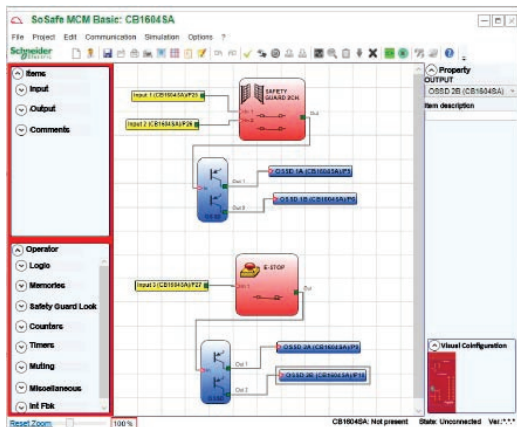


SoSafe MCM Basic software

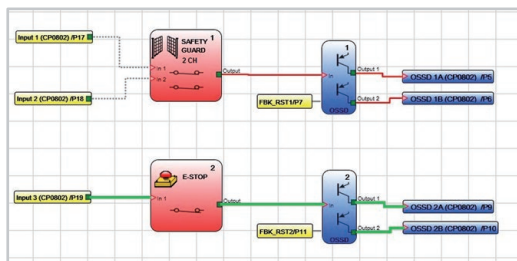


Basic Safety controller

USB Mini-B 2.0 connector for configuration



Text visualization



Graphic visualization

The I/O MONITOR allows the realtime monitoring of all the I/O in a Modicon MCM system as well as the diagnostic data from a system when it is running..

SoSafe MCM Basic software

SoSafe MCM Basic software is used to create complex logical conditions using logical operators and safety functions, such as muting, timer, counters, memories, etc. via a simple and intuitive graphic configuration interface. Configuration data is transferred from a PC where the SoSafe MCM Basic software is installed to the Basic safety controller (XPSMCMCB1604SA or XPSMCMCB1604SAG) via an USB Mini-B link.

Password

The software is protected with 2 levels of alphanumeric password (maximum 8 characters.)

- > The level 1 password is an operation and maintenance password. It allows to view the log file only and the system and use the real time MONITOR.
- > The level 2 password enables access to all features of the software. Users can load, modify, and save a project configuration, as well as download it (from the PC to the safety controller).

Log file (Level 1 password)

A log file with the creation date and CRC checksum (4-digit hexadecimal identification) of a project are stored in the safety controller.

- > A logbook can record up to five consecutive events, after which these are overwritten, starting from the least recent event.
- > The log file can be visualized using the icon in the standard tool bar.

Main features

SoSafe MCM Basic software main features are:

- > “Drag & Drop” configuration of all safety functions and logic
- > Functional validation of design
- > 2-level password management for the prevention of unauthorized access and therefore of incidental modifications or tampering with system configuration
- > Configuration of param of function blocks, for example:
 - single – or dual – channel NO or NC inputs
 - test outputs for monitoring of electro-mechanical input devices and photocells and related electrical connections
 - automatic, manual, and monitored manual restart
 - synchronization control of two channels
 - contact anti-rebound filters and timers
 - start-up test.
- > Single or bi-directional 2- or 4-sensor muting function blocks
- > Online monitoring of I/O status
- > Offline simulation of configuration
- > Project documentation and schematics

System requirements

SoSafe MCM Basic Configurable is downloadable from our website www.se.com.

It runs on a PC with the following hardware requirements:

- > RAM: ≥ 2 GB
- > Hard disk: ≥ 500 MB free space
- > USB port: 2.0 or higher

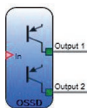
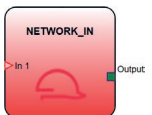
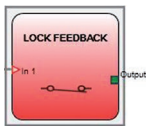
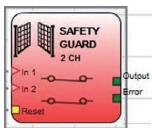
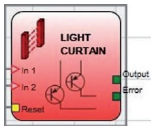
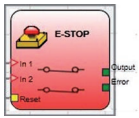
And the following software requirements:

- > Windows 7 with Service Pack 1 (or higher), Windows 10 or 11, 32 bit or 64 bit
- > Microsoft .NET Framework 4.8 (or higher) must be installed on the PC

Available language: English

Safety level param

Parameter	Value	Standard
PFH _d	1.50E-8	IEC 61508
SIL	1	
SILCL	3	IEC 62061
Type	4	EN 61496-1
PL	e	
DCavg	High	
MTTF _d (years)	160.81 years	ISO 13849-1
Category	4	
Operation life time	20 years	



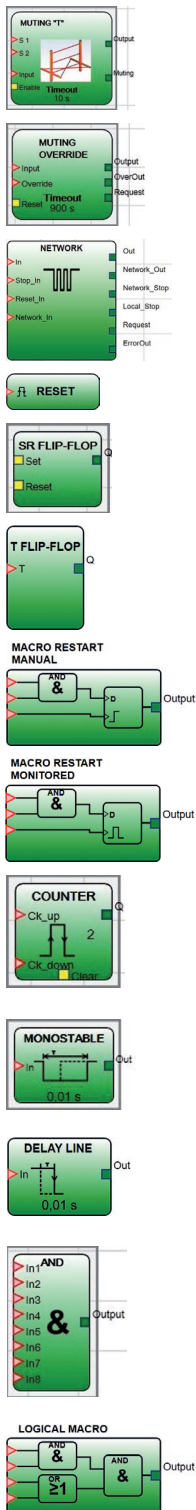
Function blocks

Input objects

E-STOP	Verifies an emergency stop device inputs status. If the emergency stop button has been pressed (contacts open), the output is 0. Otherwise the output is 1.
SAFETY GUARD	Verifies a mobile guard or safety gate device input status. If the mobile guard or safety gate is open, the output is 0. Otherwise the output is 1.
ENABLE (enable key)	Verifies a manual key device input status. If the key is not turned, the output is 0. Otherwise the output is 1.
LIGHT CURTAIN (optoelectronic safety light curtain/laser scanner)	Verifies an optoelectronic safety light curtain (or laser scanner) inputs state. If the area protected by the light curtain is occupied (light curtain outputs 0), the output is 0. Otherwise, with the area clear and outputs to 1, the output of this function block is 1.
FOOTSWITCH (safety pedal)	Verifies the status of the inputs of a safety pedal device. If the pedal is not pressed, the output is 0. Otherwise the output is 1.
PHOTOCELL (safety photocell)	Verifies the status of the inputs of an optoelectronic safety photocell. If the beam of the photocell is occupied (photocell output 0), the output is 0. Otherwise with the beam clear and an output of 1, the output is 1.
SELECTOR SWITCH	Verifies the status of the inputs from a mode selector (up to 4 inputs). If only one input is 1, the corresponding output is also 1. In all other cases, and thus when all inputs are 0 or more than one input is 1, all the outputs are 0.
TWO HAND CONTROL	Verifies the status of the inputs of a two hand control switch. If both the buttons are pressed within 500 ms, the output is 1. Otherwise the output is 0.
SAFETY MAT (safety mat or safety edge)	Verifies the status of the inputs of a safety mat or safety edge. If a person stands on the mat, the output is 0. Otherwise, with the mat clear, the output is 1. Test outputs must be used. Cannot be used with 2-wire or termination resistance mats.
ENABLING SWITCH	Verifies the status of input Inx of an enabling switch. In the event that the switch is not pressed (position 1) or completely pressed (position 3), the output will be 0. If it is pressed in the middle (position 2), the output will be 1.
TESTABLE SAFETY DEVICE	This function can be used with either every generic input either one or two channels and either NO or NC contacts.
SENSOR	Verifies the status of the of non-safety sensor. If its beam is occupied (sensor output 0), the output is 0. Otherwise, with the beam clear and an output of 1, the output is 1.
LOCK FEEDBACK	Verifies the feedback from the guardlock solenoid generating a 1 when the guardlock is locked and 0 when open.
SWITCH	Verifies the status of the a pushbutton or switch (non-safety switch). If the pushbutton is pressed the output is 1. Otherwise, the output is 0.
SOLID STATE DEVICE	Verifies the status of input INx. If the the inputs are High, the output is 1. Otherwise the output is 0.
LL0	0 input value.
LL1	1 input value.
RESTART INPUT	Enables the use of one OSSD dedicated input pin signal to be used for several restart purposes in the application, allowing the safety-related inputs to be used for the restart function.
NETWORK_IN	Used to connect the network inputs to the NETWORK function block. When the inputs are set to TRUE, the associated output is set to TRUE.

Output objects

DOUBLE OSSD (safety outputs)	OSSD semiconductor PNP safety static dual channel output. The outputs can operate in pairs. Each OSSD dual channel can work in both AUTO/Manual restart mode and can perform the EDM of external relays or contactors using the dedicated RESTART_FBK input.
STATUS (signal output)	The STATUS function block can be used to monitor any point within the configuration by connecting it to the input of the STATUS function block. It can reach up to SIL 1/PL c output.



Function blocks

Muting operators

MUTING "L" with 2 muting sensors, only for one-way openings	Monitors the 2 muting sensors along with the light curtain for L muting setup.
MUTING "T" with 2 muting sensors for two-way openings	Monitors the 2 muting sensors along with the light curtain for T muting setup.
MUTING "SEQUENTIAL" with 4 muting sensors for two-way openings	Monitors the 4 muting sensors along with the light curtain for sequential muting setup.
MUTING "CONCURRENT" with 4 muting sensors for two-way openings	Monitors the 4 muting sensors along with the light curtain for concurrent muting setup.
MUTING OVERRIDE	Forces the output to high to allow the material obstructing the gate to be removed. Two different operations are available: Manual action with hold to run, and Automatic with pulse command.

General/Miscellaneous

SERIAL OUTPUT	Transfers the state of up to a maximum of 8 inputs into a serial line data output.
NETWORK	With the Network function a designer can connect up to 10 different CPUs in a single or redundant hard-wired ring to share an emergency stop condition with all the CPU systems in the ring.
INTERPAGE IN AND INTERPAGE OUT	Memory bits which are reused from inputs to multiple outputs.
RESET	Initiates a system reset when there is an OFF-ON-OFF transition on the corresponding input which lasts less than 5 s.

Memory operators

D FLIP FLOP	Saves the previously set status on output Q on the clock rising edge.
SR FLIP FLOP	Provides an output Q at 1 with Set, 0 with Reset.
T FLIP FLOP	Changes state whenever the input is triggered. If the T input is low, the flip-flop holds the previous value.
USER RESTART MANUAL	Used to create a common reset for multiple input functions on a rising edge of the reset input.
MACRO RESTART MANUAL	Used to combine a logic gate of your choice with the USER RESTART MANUAL function block according to the pre-defined truth table.
USER RESTART MONITORED	Used to create a common reset for multiple input functions on rising edge and falling edge of the reset input.
MACRO RESTART MONITORED	Used to combine a logic gate of your choice with the USER RESTART MONITORED function block according to the pre-defined truth table.

Counter operator

COUNTER	Generates a pulse as soon as the set count is reached.
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Timer operators

PULSE GENERATOR	Generates a clock signal output with the desired period if the input In is 1.
MONOSTABLE	Generates a level 1 output activated by the rising edge of the input and remains in this condition for the set time.
MONOSTABLE_B	Generates a 1 (TRUE) output activated by the rising/falling edge of the input and remains in this condition for the set time.
PASSING MAKE CONTACT	The output follows the signal on the input. However, if this is 1 for longer than the set time, the output changes to 0.
DELAY	Applies a delay to a signal by setting the output to 1 after the set time, against a change in the level of the input signal.
DELAY LINE	Applies a delay to a signal by setting the output to 0 (FALSE) after the set time. The delay is set on a falling edge of the input signal.
TIMER	Generates a signal (TRUE or FALSE) for a user-definable period.

Logical operators

AND	Returns 1 as output if all the inputs are 1.
NAND	Returns 0 as output if all the inputs are 1.
NOT	Inverts the logical state of the input.
OR	Returns 1 as output if at least one of the inputs is 1.
NOR	Returns 0 as output if at least one of the inputs is 1.
XOR	Returns 0 as output if all the inputs are in the same logical state.
XNOR	Returns 1 as output if all the inputs are in the same logical state.
MULTIPLEXER	Forwards the signal of the inputs to the output according to the Sel selection.
LOGICAL MACRO	Enables the grouping of two or three logic gates. The result of the third logic gate is provided at the output.

IntFbk

INTFBK IN & INTFBK OUT	Configures up to 8 internal feedback loops. Possible to connect the output of a function block by using the IntFbk_Out operator to the input of a function block by using the IntFbk_In operator.
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TCSXCNAMUM3P	7
X	
XPSMCMCB1604SA	7
XPSMCMCB1604SAG	7

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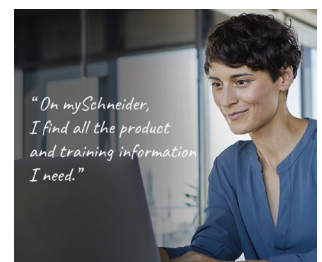
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Life Is 

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- Integrated Drives
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- Stepper Drives and Motors
- Motion Controllers
- Programmable Logic Controllers
- Safety PLC Controllers
- Input/Output (I/O) modules
- Engineering software

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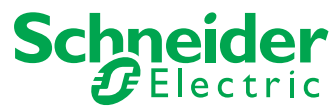
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