

# XPSMCMdix

## Instruction Sheet (Original Language)

04/2018

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All pertinent state, regional, and local safety regulations must be observed when installing and using this product. For reasons of safety and to help ensure compliance with documented system data, only the manufacturer should perform repairs to components.

When devices are used for applications with technical safety requirements, the relevant instructions must be followed.

Failure to use Schneider Electric software or approved software with our hardware products may result in injury, harm, or improper operating results.

Failure to observe this information can result in injury or equipment damage.

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### At a Glance

#### Document Scope

This information is about the usage and configuration of the XPSMCM DI0800• and XPSMCM DI1600• expansion modules for the XPSMCM CP0802• Modular Safety Controller.

#### Validity Note

The characteristics that are presented in the present manual should be the same as those characteristics that appear online. In line with our policy of constant improvement, we may revise content over time to improve clarity and accuracy. If you see a difference between the manual and online information, use the online information as your reference.

#### Product Related Information

The XPSMCM• is built to the following safety integrity levels: SIL 3 according to EN/IEC 61508, SILcl 3 according to EN/IEC 62061, PL e category 4 according to EN ISO 13849-1 in accordance with the applicable standards. However, the definitive SIL and PL of the application depends on the number of safety-related components, their parameters, and the connections that are made, as per the risk analysis.

The module must be configured in accordance with the application-specific risk analysis and all the applicable standards.

Pay particular attention in conforming to any safety information, different electrical requirements, and normative standards that would apply to your adaptation.

### **WARNING**

#### **UNINTENDED EQUIPMENT OPERATION**

Perform an in-depth risk analysis to determine the appropriate safety integrity level for your specific application, based on all the applicable standards.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

**NOTE:** Configuration of the module is the sole responsibility of the installer or user.

For all matters concerning functional safety, if necessary, contact the competent safety authorities or the competent trade associations of your country.

Consult the specific product documentation and the relative product and/or application standards to ensure correct use of modules connected to the XPSMCM DI0800• or XPSMCM DI1600• module within your specific application.

The ambient temperature of the installed system must be compatible with the operating temperature parameters stated on the product label and in the product specifications.



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## XPSMCMDiX Expansion Modules

### Safety-related Information

**NOTE:** The safety-related function can be compromised if this module is not used for the intended purpose and in accordance with the instructions in the present document. This module must only be used as safety-related equipment on machines intended to protect persons, material, and installations.

## DANGER

### HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Do not install, operate, or maintain this equipment unless you are a trained professional electrician and qualified to perform these activities.
- Install and use this equipment only in locations known to be non-hazardous.
- Do not use the equipment described herein to supply external drives or contactors.
- Use the same ground supply (0 Vdc) to supply all modules of the Modular Safety Controller family.
- Disconnect all power from all equipment including connected input devices, contactors, and drives prior to removing any covers or doors, or installing or removing any accessories, hardware, cables, or wires.
- If connected drives or contactors contain stored energy, allow sufficient time after the removal of power for the stored energy to discharge in accordance with the instructions for those drives and contactors.
- Always use a properly rated voltage sensing equipment to confirm that the power is removed.
- Avoid contacting terminals with hand or tools until the power has been confirmed removed.
- Follow all electrical safety regulations and standards (for example, lockout/tag-out, phase grounding, barriers) to reduce the possibility of contact with hazardous voltages in the work area.
- Remove locks, tags, barriers, temporary ground straps, and replace and secure all covers, doors, accessories, hardware, cables, and wires and confirm that a proper ground connection exists before reapplying power to the unit.
- Complete thorough hardware tests and system commissioning to verify that line voltages are not present on the control circuits before using your hardware operationally.
- Use only the specified voltage when operating this equipment and any associated products.

**Failure to follow these instructions will result in death or serious injury.**

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## DANGER

### LOSS OF DESIGNATED SAFETY FUNCTION

- Install the XPSMCM• Modular Safety Controller system in an enclosure with a degree of protection of at least IP 54.
- Always use an isolated power supply (PELV) to help prevent the application of line voltages to control circuitry in the case of short-circuits.

**Failure to follow these instructions will result in death or serious injury.**

## DANGER

### POTENTIAL FOR EXPLOSION OR UNINTENDED EQUIPMENT OPERATION

- Install and use the Modular Safety Controller in non-hazardous locations only.
- Do not use the Modular Safety Controller system for life support systems.

**Failure to follow these instructions will result in death or serious injury.**

**NOTE:** The observation of operating limits and duty cycles is of particular importance for equipment designed to perform a safety-related function. If this module has been subjected to electrical, mechanical, or environmental stresses in excess of its stated limits, do not use it.

## WARNING

### UNINTENDED EQUIPMENT OPERATION

- Do not exceed any of the rated operating limits for the equipment specified in the present document.
- Immediately cease using and replace any equipment that has or might have been subjected to conditions in excess of its rated operating limits.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

### User Responsibilities

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user, machine builder, or system integrator to perform the appropriate and complete risk analysis, evaluation, and testing of the products with respect to the relevant specific application or use thereof.



Neither Schneider Electric nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein. If you have any suggestions for improvements or amendments or have found discrepancies in this publication, notify Schneider Electric. All pertinent safety regulations must be observed when installing and using this product. For reasons of safety and to help ensure compliance with documented system data, only the manufacturer should perform repairs to components.

### Qualified Personnel

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. A qualified person is one who has skills and knowledge related to the construction and operation of this electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

### Modular Safety Controller

Key safety values	Value	Standard
Probability of a dangerous failure per hour (PFHd)	Refer to module-specific characteristics.	IEC 61508
Safety Integrity Level (SIL)	3	
Hardware Fault Tolerance (HFT)	1 (type B)	
Defined "Safe state" <sup>1</sup>	All outputs off	
Safety Integrity Level claim limit (SILcl)	3	IEC 62061
Type	4	EN 61496-1
Performance Level (PL) <sup>2</sup>	e	EN ISO 13849-1
Diagnostic Coverage <sub>avg</sub>	High	
Mean Time to Dangerous Failure (MTTFd)	2500 years with Category 4 architecture, otherwise 100 years <sup>3</sup>	
Category <sup>2</sup>	4	
Maximum service life	20 years	
<p><sup>1</sup> The Modular Safety Controller and expansion modules are in the defined safe state when their outputs are off. To exit the defined safe state condition, a combination of hardware inputs is required.</p> <p><sup>2</sup> The EN ISO 13849-1 performance level (PL) and safety category (Cat) of the overall system depends on multiple factors, including the selected modules, wiring practices, the physical environment, and the application.</p> <p><sup>3</sup> If expansion modules are added to the configuration, the MTTFd of the overall system is affected, refer to the SoSafe Configurable Project Report.</p>		

## WARNING

### UNINTENDED EQUIPMENT OPERATION

- You must carry out a risk assessment in accordance with EN ISO 14121-1.
- Validate the entire system/machine in accordance with the required performance level and risk assessment.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

### Module and Function Description

The XPSMCMDI0800• and XPSMCMDI1600• are input expansion modules for the XPSMCM• Modular Safety Controller offer. The XPSMCMDI0800• and XPSMCMDI1600• modules can only be configured in conjunction with the XPSMCMCP0802• Modular Safety Controller. The XPSMCMDI0800• module contains 8 safety-related inputs and the XPSMCMDI1600• module contains 16 safety-related inputs which can be configured using SoSafe Configurable software.

**Node Address:** The XPSMCMDI0800• and XPSMCMDI1600• modules contain two node address inputs: `NODE_ADDR0` and `NODE_ADDR1`.

The `NODE_ADDR0` and `NODE_ADDR1` inputs (on the expansion modules) are used to attribute a physical address to the modules with the connections presented in the table:

NODE	NODE_ADDR1 (Terminal 3)	NODE_ADDR0 (Terminal 2)
NODE 0	0 (or not connected)	0 (or not connected)
NODE 1	0 (or not connected)	24 Vdc
NODE 2	24 Vdc	0 (or not connected)
NODE 3	24 Vdc	24 Vdc

**NOTE:** It is not allowed to use the same physical address for two units of the same module reference.

### Inputs

The XPSMCMDI0800• module contains 8 digital inputs and the XPSMCMDI1600• module contains 16 digital inputs in order to physically connect inputs such as safety sensors (e.g. magnetic switches) and safety push-buttons to the controller. The specific monitoring of these inputs is configured within the SoSafe Configurable software environment.



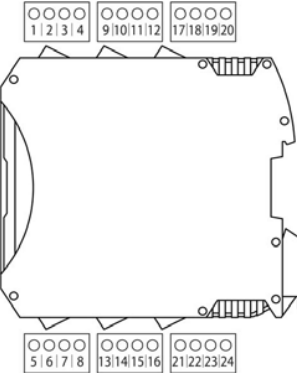
Inputs must be supplied by the line control outputs (test outputs) to reach performance level **e** in accordance with EN ISO 13849-1 Category 4 architecture and SILcl 3 (Safety Integrity Level claim limit) in accordance with EN/IEC 62061.

## Outputs

The test outputs are used for line control monitoring and are connected to any of the 8 or 16 inputs on the expansion modules. The test outputs must be defined using the SoSafe Configurable software. The test outputs must be used to monitor the presence of short-circuits or overloads on the inputs and reach performance level **e** in accordance with EN ISO 13849-1 Category 4 architecture and SILcl 3 EN/IEC 62061.

## Terminals

**Examples with maximum number of terminals. Regarding terminal designation, refer to table below.**

<p>Screw terminals example</p> 	<p>Spring terminals example</p> 	<p>Terminal numbers</p> 
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XPSMCM DI0800• module

Terminal	Signal	LED	Type	Description	Operation
1	24 VDC	PWR	-	24 Vdc power supply	-
2	NODE_ADDR0	ADDR0	Input	Node selection	Input type 3. Maximum applicable resistance 1.2 kΩ.
3	NODE_ADDR1	ADDR1			
4	0 VDC	PWR	-	0 Vdc power supply	-
5	INPUT1	IN 1	Input	Digital input 1	Input type 3. Maximum applicable resistance 1.2 kΩ.
6	INPUT2	IN 2		Digital input 2	
7	INPUT3	IN 3		Digital input 3	
8	INPUT4	IN 4		Digital input 4	
9	OUT_TEST1	-	Output	Short circuit detected output	PNP (sourcing) active high
10	OUT_TEST2	-			
11	OUT_TEST3	-			
12	OUT_TEST4	-			

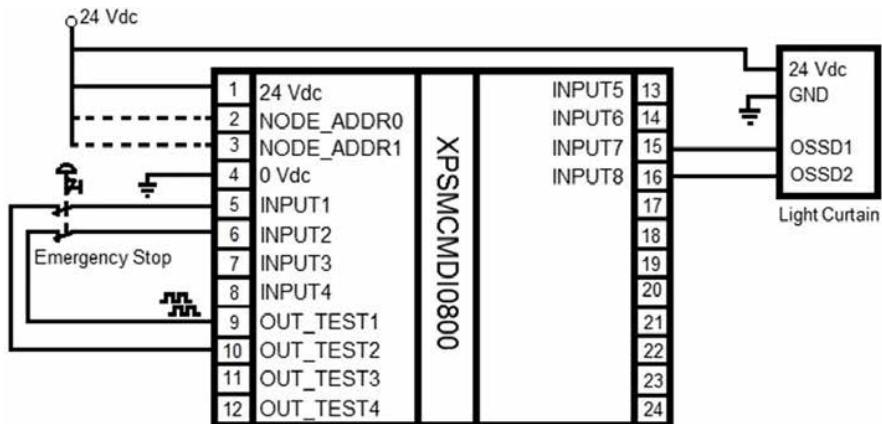
Terminal	Signal	LED	Type	Description	Operation
13	INPUT5	IN 5	Input	Digital input 5	Input type 3. Maximum applicable resistance 1.2 kΩ.
14	INPUT6	IN 6		Digital input 6	
15	INPUT7	IN 7		Digital input 7	
16	INPUT8	IN 8		Digital input 8	

XPSMCMDI1600• module

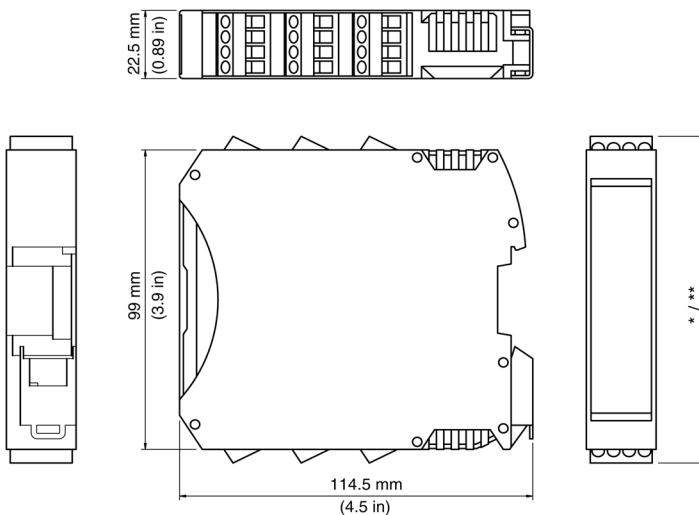
Terminal	Signal	LED	Type	Description	Operation
1	24 VDC	PWR	–	24 Vdc power supply	-
2	NODE_ADDR0	ADDR0	Input	Node selection	Input type 3. Maximum applicable resistance 1.2 kΩ.
3	NODE_ADDR1	ADDR1			
4	0 VDC	PWR	–	0 Vdc power supply	-
5	INPUT1	IN 1	Input	Digital input 1	Input type 3. Maximum applicable resistance 1.2 kΩ.
6	INPUT2	IN 2		Digital input 2	
7	INPUT3	IN 3		Digital input 3	
8	INPUT4	IN 4		Digital input 4	
9	OUT_TEST1	–	Output	Short circuit detected output	PNP (sourcing) active high output
10	OUT_TEST2				
11	OUT_TEST3				
12	OUT_TEST4				
13	INPUT5	IN 5	Input	Digital input 5	Input type 3. Maximum applicable resistance 1.2 kΩ.
14	INPUT6	IN 6		Digital input 6	
15	INPUT7	IN 7		Digital input 7	
16	INPUT8	IN 8		Digital input 8	
17	INPUT9	IN 9		Digital input 9	
18	INPUT10	IN 10		Digital input 10	
19	INPUT11	IN 11		Digital input 11	
20	INPUT12	IN 12		Digital input 12	
21	INPUT13	IN 13		Digital input 13	
22	INPUT14	IN 14		Digital input 14	
23	INPUT15	IN 15		Digital input 15	
24	INPUT16	IN 16		Digital input 16	

**Wiring Example**

XPSMCMDI0800• module



## Dimensions

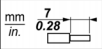








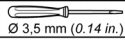

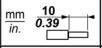










\* Screw terminals 108 mm (4.25 in)

\*\* Spring terminals 118 mm (4.67 in)

Mount the modules (Modular Safety Controller and any I/O expansion modules) in an electric cabinet with an IP54 degree of protection. The minimum clearance below and above the controller is 40 mm. Allow at least 100 mm distance between the cabinet door and the front face of the module(s). There are no clearances required on the left or right side of the module(s); however, other equipment in proximity may require larger distances and those clearances must also be taken into account.

## Technical Data

Cable types and wire sizes									
for a 5.08 pitch removable <b>screw</b> terminal block									
									
mm <sup>2</sup>	0.2...2.5	0.2...2.5	0.25...2.5	0.25...1.5	2 x 0.2...1	2 x 0.2...1.5	2 x 0.25...1	2 x 0.5...1.5	
AWG	24...14	24...14	23...14	23...16	2 x 24...18	2 x 24...16	2 x 24...18	2 x 20...16	
		N·m		0.5		lb-in		4.42	
for a 5.08 pitch removable <b>spring</b> terminal block (used by XPSMCM**G).									
									
mm <sup>2</sup>	0.2...2.5	0.2...2.5	0.25...2.5	0.25...2.5	2 x 0.5...1				
AWG	24...14	24...14	23...14	23...14	2 x 20...18				
The following instructions concerning connection cables must be observed:									
<ul style="list-style-type: none"> <li>● Use 60/75 °C copper (Cu) conductor only. Maximum cable length 100 m (328 ft).</li> <li>● Cables used for connections of longer than 50 m (164 ft) must have a cross-section of at least 1 mm<sup>2</sup> (AWG 16).</li> </ul>									

Housing characteristics	
Housing material	Polyamide
Housing degree of protection	IP20
Terminal blocks degree of protection	IP2x
Mounting	35 mm DIN rail according to EN/IEC 60715
Mounting position	Any plane
Dimensions (h x l x d)	<ul style="list-style-type: none"> <li>● with screw terminals: 108 x 22.5 x 114.5 mm (4.25 x 0.89 x 4.5 in)</li> <li>● with spring terminals: 118.5 x 22.5 x 114.5 mm (4.67 x 0.89 x 4.5 in)</li> </ul>

General characteristics	
Rated voltage	24 Vdc ± 20 % (PELV supply)
Dissipated power	3 W maximum
Overvoltage category	II
Ambient operating temperature	-10...+55 °C (14...131 °F)
Storage temperature	-20...+85 °C (-4...185 °F)
Relative humidity	10...95%
Maximum operation altitude	2000 m (6562 ft)
Pollution degree	2

General characteristics			
Vibration resistance (IEC/EN 61496-1)	+/- 3.5 mm (0.138 in) 5...8.4 Hz 1 g (8.4...150 Hz)		
Shock resistance (IEC/EN 61496-1)	15 g (11 ms half-sine)		
EMC Category	Zone B		
<b>Response time (ms)</b> The response time depends on the following parameters: <ul style="list-style-type: none"> <li>● Number of expansion modules installed</li> <li>● Number of operators</li> <li>● Number of OSSD outputs</li> <li>● Status outputs</li> </ul> For the response time, refer to the one calculated by the SoSafe Configurable software (see project report). $T_{\text{Input\_filter}}$ = filtering time set in the project for the inputs. For details, refer to the Input functions (see <i>Modular Safety Controller, User Guide</i> ).	Controller	10.6...12.6	+ $T_{\text{Input\_filter}}$
	Controller + 1 expansion module	11.8...26.5	+ $T_{\text{Input\_filter}}$
	Controller + 2 expansion modules	12.8...28.7	+ $T_{\text{Input\_filter}}$
	Controller + 3 expansion modules	13.9...30.8	+ $T_{\text{Input\_filter}}$
	Controller + 4 expansion modules	15...33	+ $T_{\text{Input\_filter}}$
	Controller + 5 expansion modules	16...35	+ $T_{\text{Input\_filter}}$
	Controller + 6 expansion modules	17...37.3	+ $T_{\text{Input\_filter}}$
	Controller + 7 expansion modules	18.2...39.5	+ $T_{\text{Input\_filter}}$
	Controller + 8 expansion modules	19.3...41.7	+ $T_{\text{Input\_filter}}$
	Controller + 9 expansion modules	20.4...43.8	+ $T_{\text{Input\_filter}}$
	Controller + 10 expansion modules	21.5...46	+ $T_{\text{Input\_filter}}$
	Controller + 11 expansion modules	22.5...48.1	+ $T_{\text{Input\_filter}}$
	Controller + 12 expansion modules	23.6...50.3	+ $T_{\text{Input\_filter}}$
	Controller + 13 expansion modules	24.7...52.5	+ $T_{\text{Input\_filter}}$
Controller + 14 expansion modules	25.8...54.6	+ $T_{\text{Input\_filter}}$	

Module-specific characteristics	XPSMCMDI0800•	XPSMCMDI1600•
Reference description	Electronic housing maximum 16-pole, with locking latch mounting	Electronic housing maximum 24-pole, with locking latch mounting
Node address (No./description)	2 / Type 3. Maximum applicable resistance 1.2 k $\Omega$ .	
Digital inputs (No./description)	8 / Type 3. Maximum applicable resistance 1.2 k $\Omega$ .	16 / Type 3. Maximum applicable resistance 1.2 k $\Omega$ .
Test output (No./description)	4 / to test for short circuits - overloads, maximum current 100 mA / 24 Vdc	
Probability of a dangerous failure per hour (PFHd)	5.75E-9	7.09E-9
Mean Time to Dangerous Failure (MTTFd) in years	474	402
Connection to expansion modules	5-way backplane expansion	
Weight	0.12 kg (4.2 Oz)	

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## Checklist After Installation

The following must be verified:

Step	Action
1	Conduct a full functional test of the system (see <i>Validation</i> in the <i>Modular Safety Controller User Guide</i> .)
2	Verify that all the cables are correctly inserted and the terminal blocks are within correct torque for screw terminals.
3	Verify that all the LED indicators are correctly illuminating for the inputs and outputs used.
4	Verify the positioning and function of all input and output sensors and actuators used with the XPSMCM•.
5	Verify the correct mounting of XPSMCM• to the DIN rail.
6	Verify that all the external indicators (lamps/beacons/sirens) are correctly functioning.



## EC Declaration of Conformity



### EC DECLARATION OF CONFORMITY

Copy of Document-no.: EAV9139101.00  
Original Language

WE: **Schneider Electric Automation GmbH / Schneiderplatz 1 / Marktheidenfeld 97828, Germany**  
*hereby declare that the safety component*

TRADEMARK: **SCHNEIDER ELECTRIC**

PRODUCT, TYPE: Modular Safety Controller

MODELS: XPSMCMCO0000S1\*, XPSMCMCO0000S2\*, XPSMCMCP0802\*, XPSMCMCI0800\*,  
XPSMCMCI0800M1\*, XPSMCMCI0800M2\*, XPSMCMCI0800M3\*, XPSMCMCI0800M4\*,  
XPSMCMCI0800M5\*, XPSMCMCI0800M6\*, XPSMCMCI0800M7\*, XPSMCMCI0800M8\*,  
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XPSMCMCI0800M97\*, XPSMCMCI0800M98\*, XPSMCMCI0800M99\*, XPSMCMCI0800M100\*

SERIAL NUMBER: YYXXZZZZ (YY: 10...99, XX: 01...53, ZZZZ: 0001...9999)

DATE OF MANUFACTURING: refer to device nameplate

*all the essential protection requirements that are described in the following directives are defined, corresponding. Furthermore, the conformity with the following harmonized European standards explained:*

DIRECTIVE:	HARMONIZED STANDARD:
<b>DIRECTIVE 2006/42/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL</b> of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast)	EN 62061:2005
	EN ISO 13849-1:2008
	EN 61496-1:2013
<b>DIRECTIVE 2004/108/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (EMC)</b> of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility and repealing Directive 89/336/EEC	EN 61131-2:2007
<b>DIRECTIVE 2011/65/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (RoHS)</b> of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment	EN 50581:2012

*It is important that the safety component is subject to correct installation, maintenance and use conforming to its intended purpose, to the applicable regulations and standards, to the supplier's instructions and to accepted rules of the art.*

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First year of affixing CE marking: 2014

Marktheidenfeld, Germany  
December 1st, 2014

I.A. Michael Schweizer  
Machine Solutions Certification Manager

The original EC Declaration of Conformity is available on our website: [www.schneider-electric.com](http://www.schneider-electric.com)