XPSMC
Safety Controller

Changes Made to the User's Manual

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a brand of Schneider Electric

Telemecanique

Changes Made to the User Manual

Entire Manual

In the entire manual the specification TSXPCX3033 is wrong. It has to be TSXPCX3030.

In the entire manual the specification Safety PLC is wrong. It has to be Safety controller.

Page 30

CANopen/Profibus Communication Port

The following table has been modified:

Profibus pinning

Pin No.	Signal	Description
1	DGND	Data ground (reference potential for VP)
2	-	Reserved
3	RxD/TxD-P	Receive/reansmit data - plus (B wire)
4	-	Reserved
5	Shield	Shield/functional ground
6	-	Reserved
7	RxD/TxD-N	Receive/transmit data - minus (A wire)
8	-	Reserved
9	VP	Supply voltage - plus (P5V)

Page 36/37

LED Description

The following table has been modified:

LED	Color	Significance
PWR	(green)	**Power** Lights up when operational voltage is applied to A1/A2.
CNF	(yellow)	**Config** Lights up in the configuration mode. Flashes when the equipment is not configured, for example during the initial operation. The equipment must be configured before operation.
E In	(red)	**Internal Error** Lights up if an internal error occurs. All safety outputs are immediately deactivated. The equipment has been damaged and must be replaced.

LED	Color	Significance
E Ex	(red)	**External Error** Lights up when an external error is detected, for example on a connected switch or sensor. Only the safety outputs on the defective path are deactivated. When the error has been corrected, and the RESET button has been pressed, the corresponding safety outputs become operational again.
RUN	(green)	**Run** Lights up in the RUN mode. Flashes during the transition from RUN mode to the OFF status, for example when the configuration should be modified. Profibus-related hardware is OK.
COM	(green)	**Communication** Lights up during communication via the TER. Profibus-related hardware is not OK.
o1...o6	(green)	**Output 1...6** Lights up when the corresponding semiconductor safety output is activated. ● Flash, when a short circuit or an external fault is present on this output (always in relation with the LED **E Ex**). ● Flash, when a default is present on this output (always in relation with the LED **E Ex**). The error message can be caused by a false signal (e.g. cross circuit connection, external voltage) or when a transistor is defective. Disconnect the wire of the concerned output and press the RESET button. If the error message disappears, then there is an error in the wiring. Otherwise, an output transistor is defective. In this case, this output must no longer be used.
R1, R2	(green)	**Relay group 1/2** Lights up when relay group R1 (safety outputs 13/14 and 23/24) and/or relay group R2 (safety outputs 33/34 and 43/44) are activated. Flash, when a default is present on this output (always in relation with the LED **E In**). This output must no longer be used.
1...16 1...32	(green) (green)	**Input i1...i16** **Input i1...i32** Lights up if on the corresponding i1...i16/i32 input circuit is closed. Flashes when an error is detected on this input.

Page 46

Safety Outputs

The following information to the response time is missing:

The response time could be set up within the software XPSMCWIN, either 20 or 30 ms.

Page 57

CANopen and Profibus Parameters

The following information is missing:

A Dual-Port Memory (DPM) is provided to exchange data between the XPSMC and the CANopen part. Below is a description of CANopen and Profibus parameters. Despite the DPM configuration, these parameters (address and Baud rate) are sent to the communication part, as well as the status of the I/O's and the mode and status of XPSMC itself (see *Modbus Functions*, page. 50).

CANopen Parameters

The file specification *.gsd* is wrong. It has to be *.eds*.

Page 58

CANopen and Profibus Parameters

Profibus Parameters

The Profibus parameters have been moved to the beginning of the section *CANopen and Profibus Parameters*, page.57.

The Baud rate is not automatically set on 12 Mbit/s. The Baud rate is automatically detected.

Page 59

The Object Dictionary of the XPSMC ZC Safety Controller

The meaning of the `ARR` (ARRAY) object code is wrong. It has to be the following description:

Multiple data field object where each data field is a simple variable of the SAME basic data type, e.g. array of UNSIGNED16 etc. Sub-index 0 is of UNSIGNED8 and therefore not part of the ARRAY data

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Page 61 **The Object Dictionary of the XPSMC ZC Safety Controller**

The following lines are missing in the table:

Index, Subindex	Name	Data Type	Obj. Type	Access Type	Default Value	Description
1029	Error Behaviour	UINT8	ARR			Behaviour in case of error
1029, 0	Number of entries	UINT8	VAR	ro	0x1	Number of entries
1029, 1	Communication Error	UINT8	VAR	rw	0x0	Behaviour in case of communication error

Page 75 **Brief Description of the Monitoring Devices**

The following image is missing for the description of the Shaft/Chain Break Monitoring:

Max. frequency 1 / 4 ms => 250 Hz, the minimum duration of a pulse is 2 ms.