



Product Change Notification

PCN-Number / Rev / Date	45429 / 1 / 14.12.2023
Category / change type	ACEL active components / ALERT Alert / MINOR
Summary	User-LEDs glow dimly in LED-OFF state
Motivation, trigger	User-LEDs glow dimly in LED-OFF state
Details of change	Changed hardware starting with article version A_VER=B, this is printed on label (version information, position 2 = mainboard) and also available in software via T_x_sys_logistic_data.acn_ArticleVersion (second digit). An add-on C-BIOS library is available. If this add-on C-BIOS library is required, please contact STW.

Alert impact	Due to component discontinuation, STW was forced in early 2023 to use another bi-color LED type with some changed optical characteristics, esp. the LED chip for red color is some brighter than it was before. This results in a dim red glowing, even if the LED is switched off by software via function x_sys_set_led(). Further, the predefined colors X_SYS_LED_COLOR_ORANGE and X_SYS_LED_COLOR_YELLOW do not result in the expected color shade. Unfortunately, since several years, the market for bi-color LED provides no alternatives that suit to the ECU requirements.
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Hardware solution:

For already delivered parts there is no hardware solution available (no rework possible).

For parts that will be delivered in future, STW will implement a hardware change that solves the "dim red glowing" problem. These parts will be marked on label with article version A_VER=B (at position 2 = mainboard), this information is also available in software via T_x_sys_logistic_data.acn_ArticleVersion (second digit).

Unfortunately, there is no hardware solution available to solve the "shifted color shading".

Software strategy for customers with application programming in C:

STW can provide a small add-on library incl. some xt_sys_led....() functions that will avoid the red glowing and will adapt the yellow / orange color shade. However, this requires an update and recompilation of existing application software.

This add-on library might be used for all parts with serial number (T_x_sys_logistic_data.au8_SerialNumber) 230000121713 or higher, but an appropriate "if-serial-number-above-check" in the application software is recommended. Please note, that this add-on function should not be used on parts with serial number below 230000121713 as this would have unwanted impact regarding the color shade.

Software strategy for customers with application programming in CODESYS:

STW can provide a XML file that might be imported to CODESYS and solves the "shifted color shading" issue by changed scaling of ou16_Color via new FB_xtSysLedSet (instead of original FB_x_sys_set_led) or via new "I/O Mapping"

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FB_xtSysLedColorRemap. This routines also ensure a correct handling of old vs. new LED type (by checking if ECU serial number lower/higher than SerN 230000121713). However, for already delivered parts, there is no software solution available in CODESYS for the "dim red glowing".

Company STW TECHNIC, LP

Comments / objections to support@wiedemann-group.com

If you need further assistance, you may also contact your local sales representative or our sales department.
STW shall not be held liable if this notification is not correctly distributed within your organization.

Affected Product	STW part number	Customer part number
Controller ESX-3XL	50577	n.a.
Controller ESX-3XL	50578	n.a.
Controller ESX-3XL	51965	n.a.
Controller ESX-3XL	51966	n.a.
Controller ESX-3XL	53922	n.a.
Controller ESX-3XL	54201	n.a.
Controller ESX-3XL	54482	n.a.
Controller ESX-3XL	54793	n.a.
Controller ESX-3XL	55658	n.a.
Controller ESX-3XL	55998	n.a.
Controller ESX-3XL	56073	n.a.
Controller ESX-3XL	56160	n.a.
Controller ESX-3XL	57099	n.a.
Controller ESX-3XL	57379	n.a.
Controller ESX-3XL	58690	n.a.
Controller ESX-3XL	58762	n.a.
Controller ESX-3XL	59173	n.a.
Controller ESX-3XL	59249	n.a.
Controller ESX-3XL	59282	n.a.
Controller ESX-3XL	59631	n.a.
Controller ESX-3XL	59878	n.a.
Electronic Controller ESX-3XL	60730	n.a.
Controller ESX-3XL	61066	n.a.
Controller ESX-3XL	62415	n.a.

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Affected Product	STW part number	Customer part number
Controller ESX-3XL	62457	n.a.
Controller ESX-3XL	62601	n.a.
Controller ESX-3XL	62826	n.a.
Controller ESX-3XL	62905	n.a.
Controller ESX-3XL	63027	n.a.
Controller ESX-3XL	63177	n.a.
Controller ESX-3XL	63533	n.a.
Controller ESX-3XL	63534	n.a.
Controller ESX-3XL	63891	n.a.
Controller ESX-3XL	64002	n.a.
Controller ESX-3XL	64417	n.a.
Controller ESX-3XL	64444	n.a.
Controller ESX-3XL	65111	n.a.
Controller ESX-3XL	65544	n.a.
Controller ESX-3XL	67317	n.a.
Controller ESX-3XL	67329	n.a.
Controller ESX-3XL	67847	n.a.
Controller ESX-3XL	68489	n.a.
Controller ESX-3XL	70273	n.a.
Controller ESX-3XL	70636	n.a.
Controller ESX-3XL	70639	n.a.
Controller ESX-3XL	70894	n.a.
Controller ESX-3XL	71271	n.a.
Controller ESX-3XL	71686	n.a.
Controller ESX-3XL	72034	n.a.
Controller ESX-3XL	72110	n.a.
Controller ESX-3XL	72377	n.a.
Controller ESX-3XL	72741	n.a.
Controller ESX-3XL	72914	n.a.
Controller ESX-3XL	73326	n.a.
Controller ESX-3XL	75043	n.a.
Controller ESX-3XL	75122	n.a.
Controller ESX-3XL	75802	n.a.

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Affected Product	STW part number	Customer part number
Controller ESX-3XL	75931	n.a.
Controller ESX-3XL	76231	n.a.
Controller ESX-3XL	76416	n.a.
Controller ESX-3XL	77103	n.a.
Controller ESX-3XL	79726	n.a.
Steuerung ESX-3XL	81597	n.a.
Controller ESX-3XL	81793	n.a.
Controller ESX-3XL	82105	n.a.
Controller ESX-3XL	82106	n.a.
Controller ESX-3XL	83042	n.a.
Controller ESX-3XL	83417	n.a.
Controller ESX-3XL	83420	n.a.
Controller ESX-3XL	83469	n.a.
Controller ESX-3XL	84348	n.a.
Controller ESX-3XL	84362	n.a.
Controller ESX-3XL	85354	n.a.
Electronic Controller ESX-3XL	86897	n.a.
EB-Slot A: EB04, 35770 (12x DOut 2,5A)	87223	n.a.
Controller ESX-3XL	89121	n.a.
Controller ESX-3XL	89154	n.a.
Controller ESX-3XL	90258	n.a.
Controller ESX-3XL	94542	n.a.
Controller ESX-3XL	94607	n.a.
Controller ESX-3XL	101727	n.a.
Controller ESX-3XL	102581	n.a.
Controller ESX-3XL	53406	100461201
Controller ESX-3XL	55285	100479826
Controller ESX-3XL	51960	480560
Controller ESX-3XL	51964	51964
Controller ESX-3XL	54385	54385
Controller ESX-3XL	54493	54493
Controller ESX-3XL	54498	54498
Controller ESX-3XL	58935	58935