

Product Change Notification ID#0166-1

Title of notification

New light sensor – CCpilot XL, XM and XS

Level of Change

- Product Change Notice – Customer Information
- Product Change Notice – Customer Approval
- Product Change Notice – Customer Action
- Product End of Life – Required Customer Action
- Errata – Customer information

Affected Products

All products in CCpilot XL, XM and XS family will be affected.

Product Attribute Affected

- | | |
|---|--|
| <input checked="" type="checkbox"/> Material Change | <input type="checkbox"/> Process Change |
| <input type="checkbox"/> Design Change | <input type="checkbox"/> Data Sheet Change |
| <input checked="" type="checkbox"/> Software Change | <input type="checkbox"/> Packing/Shipping Change |
| <input type="checkbox"/> Other: - | |

Impact of change

- | | |
|--|---|
| <input type="checkbox"/> Form | <input checked="" type="checkbox"/> No change in form |
| <input type="checkbox"/> Fit | <input checked="" type="checkbox"/> No change in fit |
| <input checked="" type="checkbox"/> Function | <input type="checkbox"/> No Change in function |

If applicable, see description below.

Change - Information

Due to the situation in the market for electronic components, we are forced to replace the light sensor we used in several of our products.

The change will affect a function call in the API software. The function is rarely used but should be checked if it is suspected to be in use.

The new sensor doesn't have an Infra-Red channel (channel 1) as the current sensor has.

The function can be found in the CrossControl API, see below.

After this change function **Lightsensor_getIlluminance2** will always return 0 in the channel 1 value.

```

-----
/!*
 * Get illuminance (light) value from light sensor.
 * The parameters ch0 and ch1 are raw ADC values read from light sensor.
 *
 * Supported Platform(s): XL, XM, XS
 *
 * @param value Illuminance value (Lux).
 * @param ch0 Channel0 value. (Not applicable on VC platform - always 0)
 * @param ch1 Channel1 value. (Not applicable on VC platform - always 0)
 *
 * @return error status. 0 = ERR_SUCCESS, otherwise error code. See the enum eErr for
 details.
 */
EXTERN_C
CCAUXDLL_API
eErr
CCAUXDLL_CALLING_CONV
Lightsensor_getIlluminance2 (LIGHTSENSORHANDLE, uint16_t* value, uint8_t* ch0, uint8_t*
ch1);
-----

```

Tests

Tests performed and passed:

CrossControl have performed necessary tests to ensure the function of the new hardware and software.

Recommendation

The new software is backwards compatible in all aspects besides the light sensor API that now will be changed as per above.

If the API function is used, check handling of return values = 0.

Information and dates

Estimated date for first deliveries: April 2022

Contacts

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