ETAS

DRIVING EMBEDDED EXCELLENCE

Question:

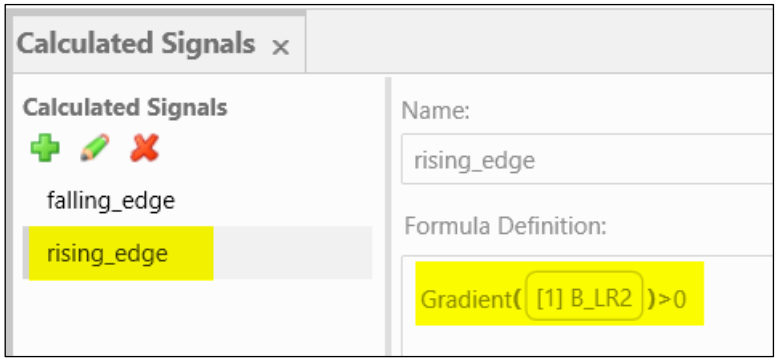
How can I detect a rising or falling edge of a digital signal in MDA V8?

Answer:

The easiest way is to use the library calculated signal "gradient" as follows:

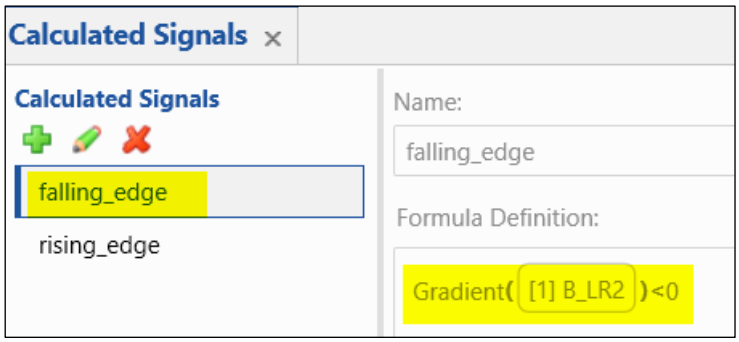
Detailed information about Calculated Signals can be found in the Online-Help (F1) of MDA V8 in the section „Defining Calculated Signals" or in the video „Calculated Signals Creation" which is linked there.

Detect rising edge: Gradient (*Signal*) > 0



In the example above: *Signal = „B_LR2" (from Measure file 1)*
Name of the formula ="rising_edge"

Detect falling edge: Gradient (*Signal*) < 0



In the example above: *Signal = „B_LR2" (from Measure file 1)*
Name of the formula ="falling_edge"

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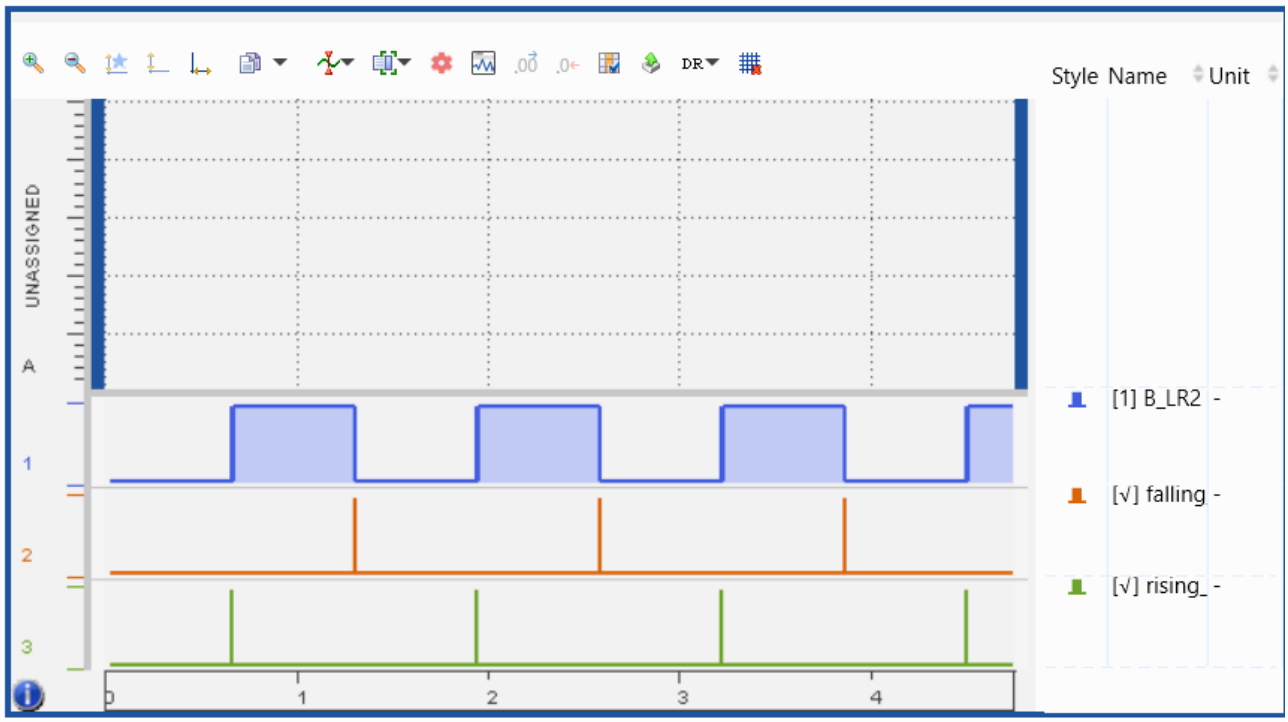
After drag-and-drop of the newly defined Calculated Signals into the oscilloscope the result now shows the rising and falling edges (at the bottom of the oscilloscope).



Additional information:

The library used in this example is available in MDA V8.
How to use calculated signals in INCA V7 and MDA V7 is described in the FAQ "Wie erstelle/verwalte ich Berechnete Signale in INCA/MDA?".

In case of further questions:

Please feel free to contact our Support Center, if you have further questions.
Here you can find all information: http://www.etas.com/en/hotlines.php

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