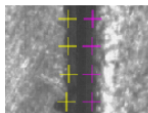# 3 - S31 CALC Gap position+width Linear ALL

■ **Description**

Calculates the **gap position**, the **gap width** and the blank's **height difference**, supposing that the gap is vertically linear.

■ **Icon**

■ **Parameters**

G15 Gap Position

Attributes of
01 Gap correction thickness ◀

Weighting   Percent

−   50   +

Parameter	Comment
Weighting	Normally, the position of the gap is set to be in the middle of the measured gap (value "Weighting" = 50%). With a smaller percentage value the found position is set near the gap side defined as "Reference" in '01.4 Fix gap correction reference', with a bigger percentage value the found position is set near the gap side opposite to the side defined as "Reference" in '01.4 Fix gap correction reference'. Value 0% sets the position on the "reference" gap border, value 100% sets the position on the gap border opposite to the "reference". [Percent]

Attributes of
01.1 Gap offset left in Pix ◀

Number

0.000

Parameter	Comment
Number	Moves the left found gap position inside the gap. [Pixel]

Attributes of
01.2 Gap offset right in Pix ◀

Number

0.000

Parameter	Comment
Number	Moves the right found gap position inside the gap. [Pixel]

Parameter	Comment
Number	Set the reference side for "Weighting" in '01 Gap correction thickness': 0 = Use the **thicker blank** as reference side. If both have same thickness, use the left side as reference. 1 = Set the left side fix as reference side.

Parameter	Comment
Maximum jump width	Horizontal range around the "expected position" where the gap must be found. The *expected position* is the found gap position of the before image. If the new gap position value is more than "Maximum jump width" away from the expected position, the value of "expected position" is used as output. [Pixel]
AddOn per image	If the new gap position value is more than "Maximum jump width" away from the "expected position", the value of "Maximum jump width" is increased by "AddOn per image". If the new gap position value is inside the actual range of "Maximum jump width", the value for "Maximum jump width" is reset to the given value in "Maximum jump width". [Pixel]

- ■ **Measured values for plotter**

504	0 … xxx	Ypos cam mm
510	0 … xxx	Zpos cam mm
516	0 … xxx	Gap width mm
517	0 … xxx	Mismatch mm
556	0 / 1	Plausibility GEO error
709	-xxx .. +xxx	Height difference

- **Subgraphs interface**

IN bridges			OUT bridges	
◼ **image**	Img		◀ **value**	Ypos cam mm
				Zpos cam mm
◀ **value**	Gap pos X left / right			Gap pos X / Y corr
	Gap pos Y left / right			Gap width mm
	Max gap width			HeightDiff mm
	Max height diff			Mismatch mm
	Plaus error			Rank

- **Graph block diagram**
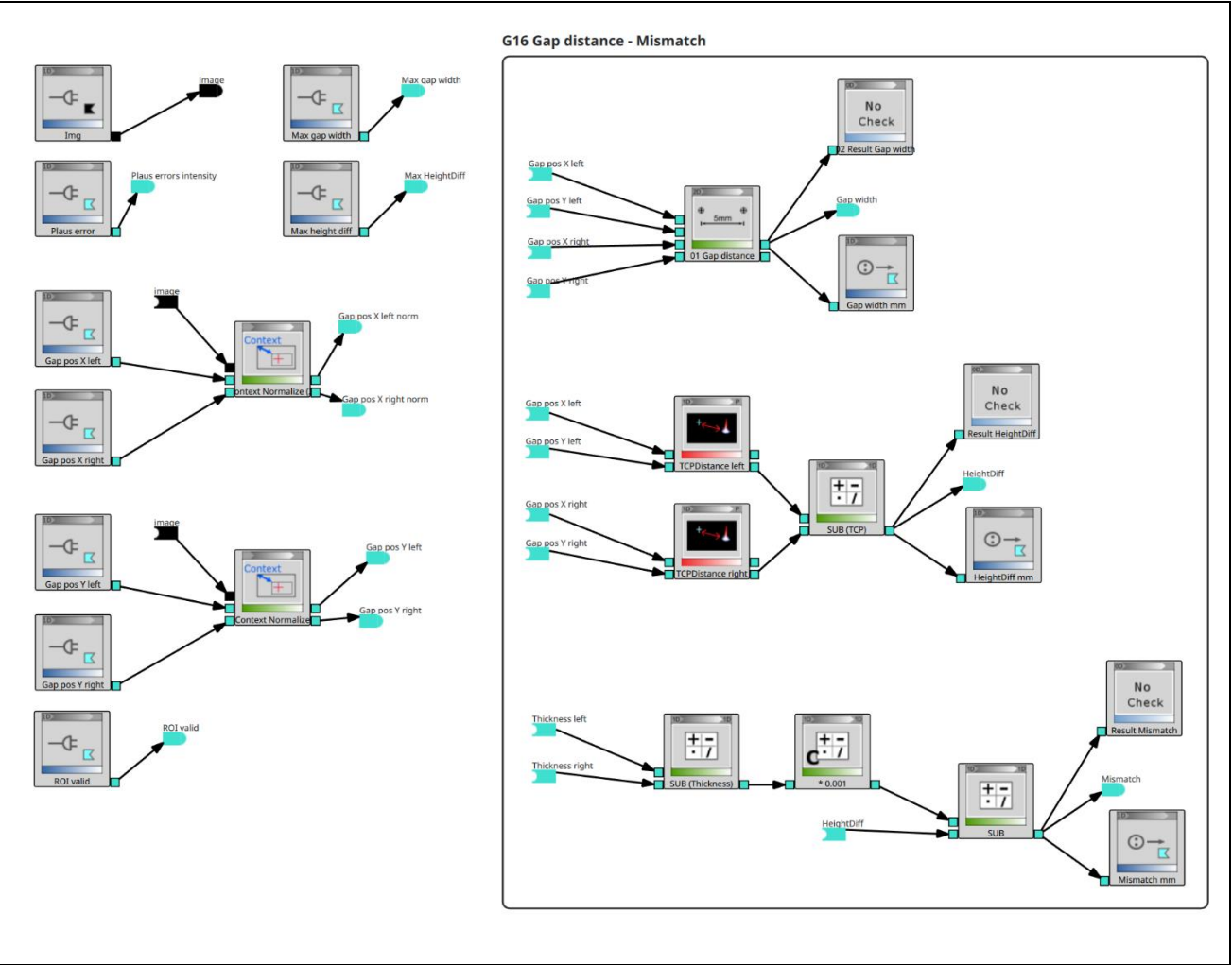
G15 Gap Position
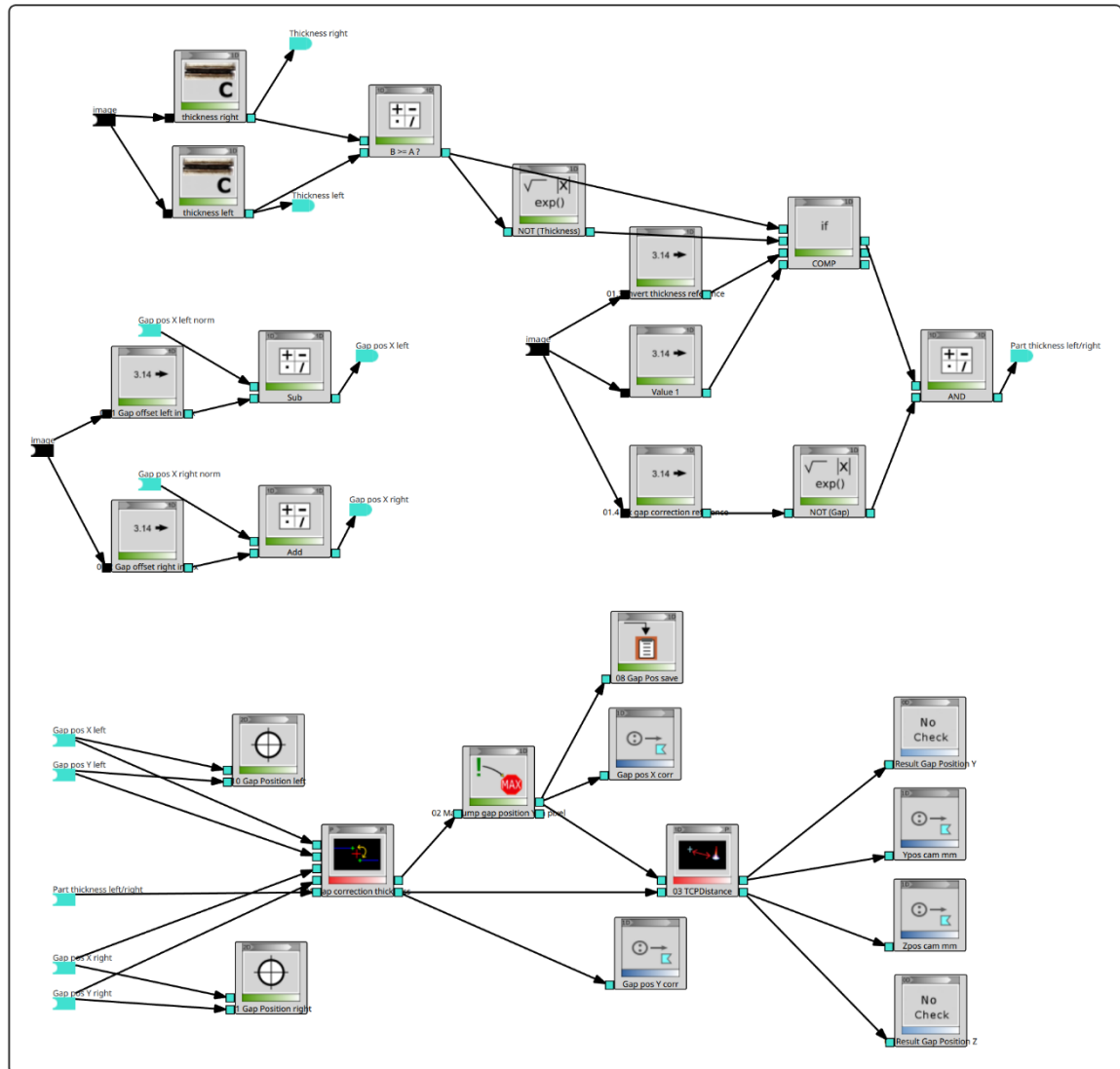
G61 Plausibility Logic an Rank