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VC12Hdr

V = Variables

R = Reading functions

The VC12Hdr function calculate the posit of the axis according to the HIGH DATA RAPPRESENTATION scheme.

IMPLEMENTATION

VC12Hdr (Axis,HdrType,Result)

Parameters:

IN/OUT	VARIABLE TYPE	EXAMPLE NAME	DIM	
Asse	EANPOS, OOPOS3, COUNTER3, ABSCNT, CAMMING4, CAMMING3, ANPOS2	ooX		Device that manages a count
HdrType	GLOBAL CONST	2	B	HDR viewing type
Result	GLOBAL	return	L	Data value converted

HdrType

The HDR viewing allows to center the range of the units on the integer values. The value is calculated by means of the encoder, measure and pulse is approximated to the nearest unit.

0 - Hdr disable.

1 - Hdr enable, in the central band between two units (between 0→1 the band is [0.25, 0.75]) is shown a count that oscillates between two values.

2 - Hdr enable

Example

With X axis

Measure: 220

Pulse: 4096

Encoder: 62296

the Posit is 3345 calculated as $62296/4096*220 = 3345.97$.

The VH12Hdr function (x,2,Result) will put Result = 3346.

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