

Scalar Result Definitions

List of scalar results to be generated

Results Group 1

Results Group

Logical Condition

T3 AND Lift

Either a single boolean gate name or binary operation on two gates (e.g. Gate1 AND Gate2).

Channels and Results

Computation Type

Min

The type of value to be computed over the user defined range

Channel Name

sLap

The channel to be evaluated

Result Name

T3Lift

The name to be given to the result

+ Result

Results Group 2

Results Group

Logical Condition

T3 AND Regen

Either a single boolean gate name or binary operation on two gates (e.g. Gate1 AND Gate2).

Channels and Results

Computation Type

Min

The type of value to be computed over the user defined range

Channel Name

sLap

The channel to be evaluated

Result Name

T3Regen

The name to be given to the result

+ Result

Results Group 3

Results Group

Logical Condition

T3 AND Brake

Either a single boolean gate name or binary operation on two gates (e.g. Gate1 AND Gate2).

Channels and Results

Computation Type

Min

The type of value to be computed over the user defined range

Channel Name

sLap

The channel to be evaluated

Result Name

T3Brake

The name to be given to the result

## Vector User Maths

Vector channels can be calculated. The example below shows how one might calculate brake power. Expressions can include any of the following operators / \* + - ^ sin() cos() tan() asin() acos() atan() abs() ln() exp() log() and scientific format may be used (e.g. 2.5e6). Config parameters can also be used in an expression, for example car.chassis.carRunningMass.mCar.

Vector User Maths is calculated first so can be used as an input to Scalar User Maths.

Vector Definition 1

Specification of a user-defined channel output.

Name

PBrakeFL

Name of this channel, to be used in charts and found in channel list.

Units

W

Units for this channel, for display on charts etc.

Expression

MBrakeFL \* nWheelFL

Expression defining the mathematical construction of the channel value. Existing channel names can be used, alongside numbers, the 4 basic operators, and parentheses. Numbers can be written in scientific format. For example "vCar / (xCar \* -1.32e-3)" is a valid expression.

Description

FL brake power

Description of the meaning of the channel, for reference in the channel list.

+ Vector Definition