



MICROTEC®

Speed limiter

[illegible]

Capitale Sociale € 10.200 i.v Reg. Imprese di Varese n. 02356120127 REA n. 251455


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General description:

This strategy is used for apply correction on ignition and/or injection for obtain a defined speed value, particularly useful for the speed limits on lanes box.

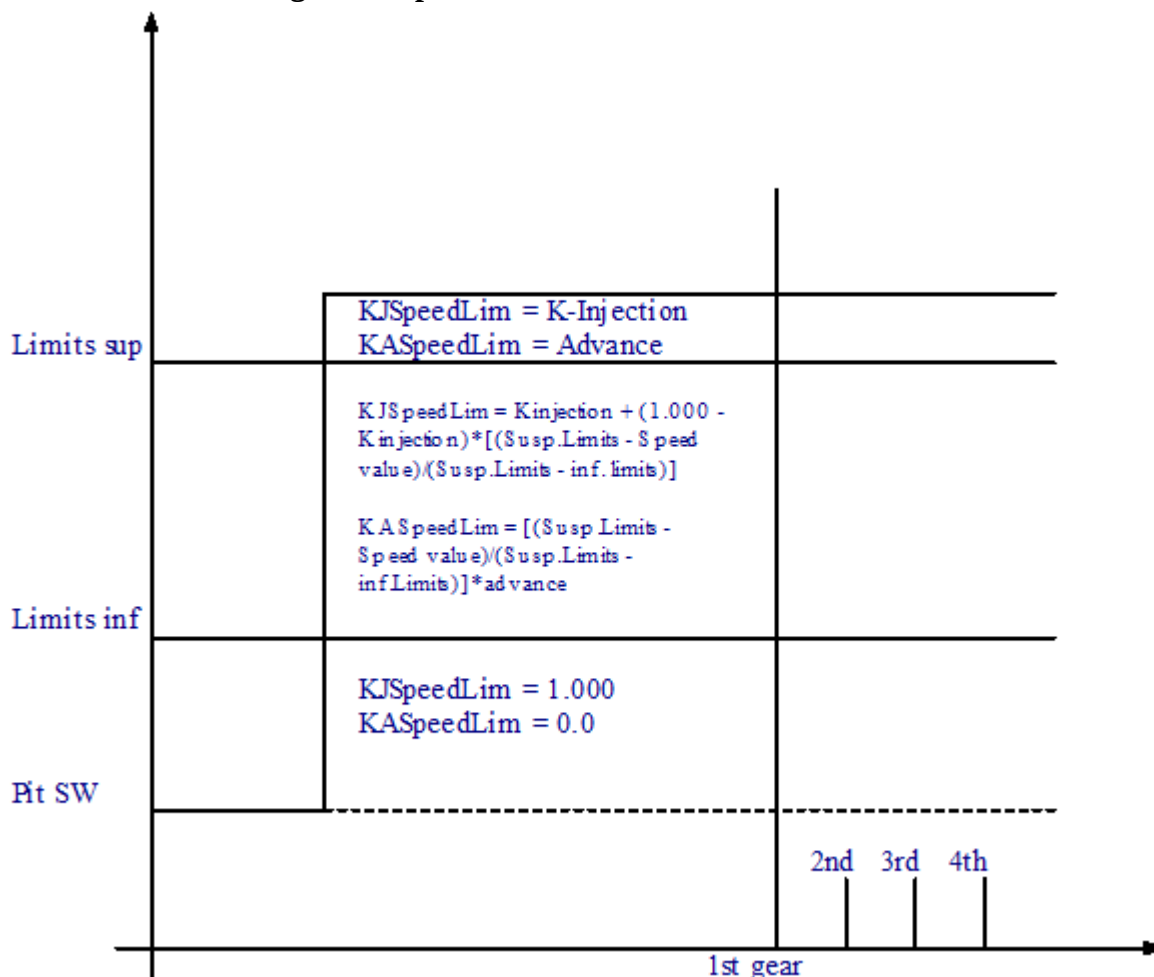
Speed Limiter

Control Type Speed - Rear Wheel

Limits	Speed [km/h]	Gear 1 [rpm]	Gear 2 [rpm]
Inf.	45	0	0
Sup.	50	0	0

Maximal Corrections	
K-Injection	0.700
Advance [deg]	10.0

Enable condition and general operation:



Pit limiter strategy is enable only if gear engaged is 1st, sw input is ON and speed value is upper than limits inf.

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Detailed operation:

If gear input = 1st and Pit-Lane limiter = ON

KJSpeedLim = 1.000, if speed value is ≤ Inf. Limits.

KJSpeedLim = K-Injection, if speed value is ≥ Sup. Limits.

KJSpeedLim = if Inf. Limits < Speed value < Sup. Limits

$$KJSpeedLim = K_{injection} + (1.000 - K_{injection}) * \left(\frac{Susp.Limits - Speed\ value}{Susp.Limits - Inf.Limits} \right)$$

If gear input = 1st and Pit-Lane limiter = ON

KASpeedLim = 0.0, if speed value is ≤ Inf. Limits.

KASpeedLim = Advance, if speed value is ≥ Sup. Limits.

KASpeedLim = if Inf. Limits < Speed value < Sup. Limits

$$KASpeedLim = \left(\frac{Susp.Limits - Speed\ value}{Susp.Limits - Inf.Limits} \right) * advance$$

Software description:

Type – speed reference input selection. By this selection you can select the speed input that will be used during the strategy.

Limits [km/h] inf – lower speed limit under which the strategy is turned off.

Limits [km/h] sup – upper speed limit above which the strategy applies the maximum correction set.

Maximal corrections K-injection – Multiply factor for injection correction that will be applies at Sup. Speed limit and above.

Maximal correction Advance [deg] – additive factor for ignition correction that will be applies at Sup. Speed limit and above.

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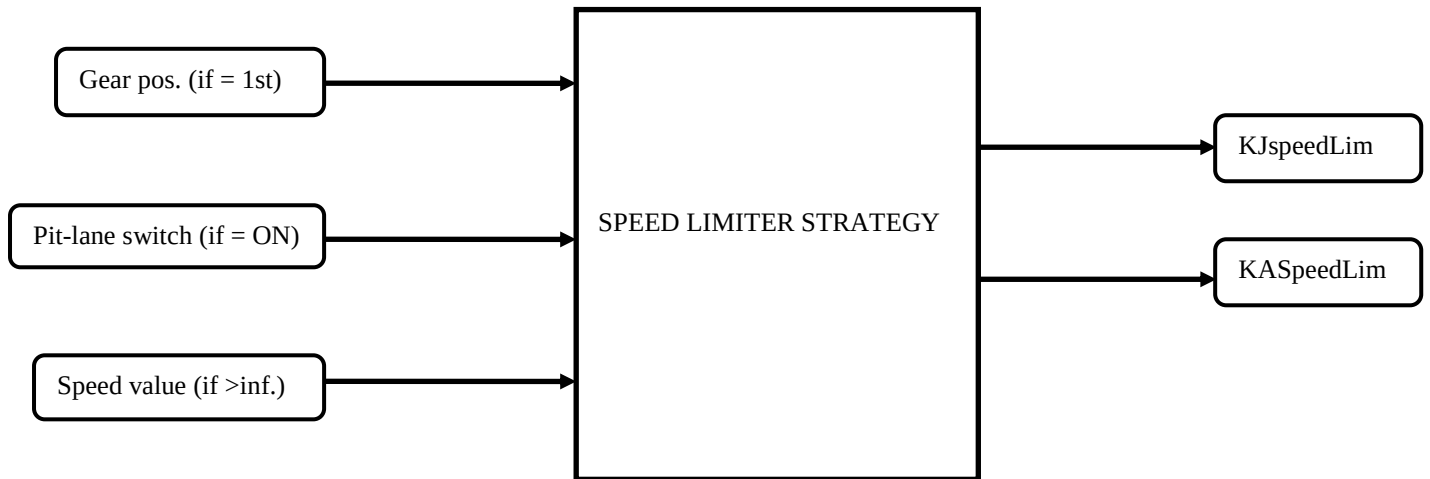
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**MICROTEC®****Operation interface:****MICROTEC S.r.l.**

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