

$$T(r) = \begin{cases} T_{ped} + (T_0 - T_{ped}) \left(1 - \left(\frac{r}{r_{ped}}\right)^2\right)^{\alpha T} & \text{if } r \leq r_{ped} \\ mr + b & \text{if } r_{ped} < r \leq a \\ \max \left(T_{sep} \cdot e^{\left(\frac{-(r-a)}{\lambda_{T1}}\right)}, T_{min} \right) & \text{if } r > a \text{ and } T > T_{min} \\ T_{min} \cdot e^{\left(\frac{-(r-a)}{\lambda_{T2}}\right)} & \text{other cases} \end{cases}$$

with

$$m = \frac{T_{sep} - T_{ped}}{\Delta_{ped}}, \quad b = T_{sep} - ma$$

$$n(r) = \begin{cases} n_{ped} + (n_0 - n_{ped}) \left(1 - \left(\frac{r}{r_{ped}}\right)^2\right)^{\alpha_n} & \text{if } r \leq r_{ped} \\ mr + b & \text{if } r_{ped} < r \leq a \\ n_{sep} \cdot e^{\left(\frac{-(r-a)}{\lambda_n}\right)} & \text{other cases} \end{cases}$$

with

$$m = \frac{n_{sep} - n_{ped}}{\Delta_{ped}}, \quad b = n_{sep} - ma$$