



EZSpeed

INSTALLATION/SOFTWARE/USAGE

Q: Question

How is the speed measurement of an EZSpeed correlated to that of EZSlam?

A: Answer

The relationship can be quickly established as it is a constant ratio of around 0.9.

This is due to the effect of the EZSlam on the door. While this effect is taken into account when evaluating the energies, it is not when reporting a single speed value.

The value can be derived from the kinetic energy model where $E_{kin} = \text{Inertia} \times \text{velocity}^2$. Where Inertia with EZSlam versus without EZSlam is about 1 kgm^2 less, therefore the speed will increase with about 10%. For a given door the ratio is constant.