



## Looping, multi-chronometer and photoelectric barrier sensor EQ316A

### Function

Study of motion and trajectory, concept of centripetal force, particle dynamics, mechanics of rigid bodies, conservation of mechanical energy, measurements and calculation of energy on several points of a circumferential trajectory, energy losses, transformation of gravitational potential energy into kinetic energy, condition of imminence of contact between specimen/object and track, determination of speed of specimen/object through conservation of energy, moment of inertia, influence of minimum launching height on a loop, energy discussions for loops, loops on roller coasters.

### Knowledge areas

Physics

### Level

Graduation - Technical education - High school

