OLÁ!
I AM SMASHY

what you need to know about me

PLAYABLE DURING RED LIGHT

WAITING IS NO LONGER BORING

PLAY ON RED, WALK ON GREEN

APP AVAILABLE

HIT THE HIGHSCORE!

SMASH

ME

SMASHY

Hey! I'm Smashy, at lights I stand,
Red's my cue to lend a hand.
When green shines bright, our game is done,
Cross safely now, the victory's won.

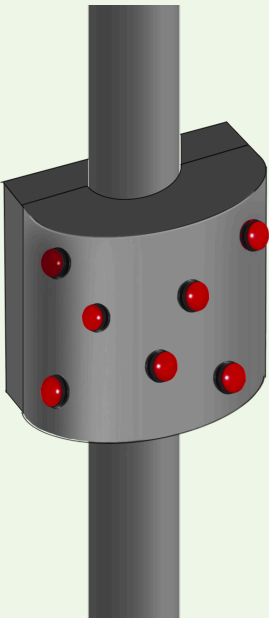CHECK OUT OUR NEW APP

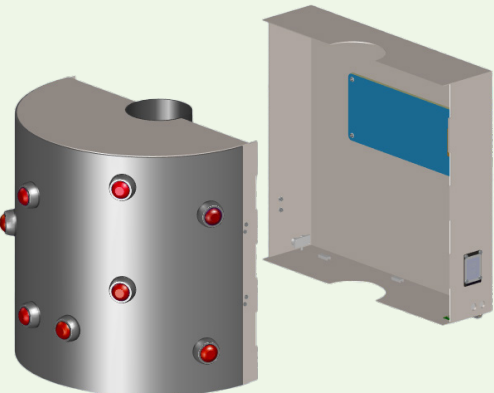WELCOME TO
SMASHY

BEAT THE HIGHSCORE!

1.
DOWNLOAD APP

2.
HOLD YOUR PHONE TO THE NFC-READER

3.
SMASH VERY QUICKLY

!
LOW LEVEL MORE TIME

!!
HIGH LEVEL LESS TIME

:(
TOO SLOW GAME OVER

:)
HOLD ON FOR FEW SECONDS
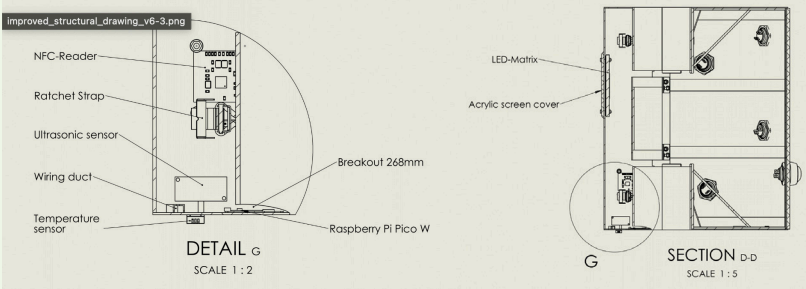
WIN

DESCRIPTION

FRONTSIDE

Our product, 'SMASHY,' consists of two parts that are attached around the traffic light. SMASHY is constructed from high-density polyethylene and stainless steel, making it both weatherproof and robust. This durability is crucial not only for the product's longevity but also for its sustainability.

BACKSIDE

For the electrotechnical component, an LED matrix display, an NFC reader for mobile phone connectivity, a mechanism to count the crossers, and a Raspberry Pi Pico chip for programming are installed.

improved_structural_drawing_v6-3.png

NFC-Reader
Ratchet Strap
Ultrasonic sensor
Wiring duct
Temperature sensor

Breakout 268mm

Raspberry Pi Pico W

DETAIL G
SCALE 1 : 2

LED-Matrix

Acrylic screen cover

G

SECTION D-D
SCALE 1 : 5

SMASHY
STEMPE SAFETY

ISEP INSTITUTO SUPERIOR DE ENGENHARIA DO PORTO