

IMU – Inertial Measurement Unit

Inertial measurement unit able to output **accelerations and angular rates**.

Output is over can bus and it is possible to select multiple configurations through specific can messages/tool software working with PCAN-USB.

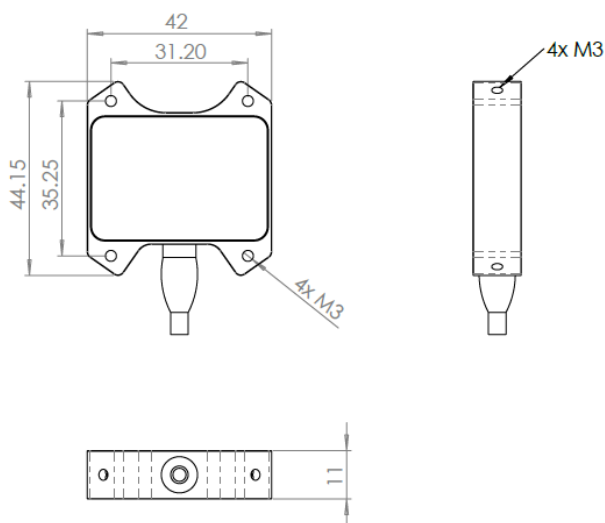
Technical Specification:

◆ Power Supply:	8÷16 Vdc
◆ Current Absorption:	20mA @ 12V
◆ Working Temperature Range:	0÷105 °C
◆ Thermal Effects:	±0.25% FS
◆ Material:	Anodized aluminum
◆ Protection:	IP64
◆ Weight with wires:	≈ 58 g
◆ Wires:	Raychem 55A 26 AWG, length 1000mm
◆ Connection:	RED Power Supply
	BLACK Gnd
	WHITE Can-H
	BLUE Can-L
	Connector on request



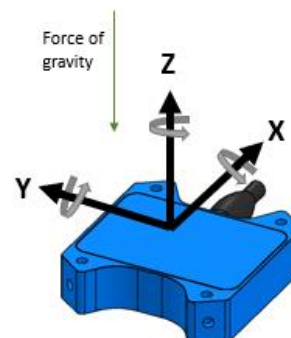
Setting Configuration (default in bold):

- ◆ CAN ID: specifiche 2.0A
- ◆ BAUDRATE: **1 Mbps**, 500 Kbits, 250 Kbits
- ◆ ACCELEROMETER RANGE: ±24G, **±12G**, ±6G, ±3G
- ◆ GYROSCOPE RANGE: ±2000 °/s, ±1000 °/s, ±500 °/s, **±250 °/s**, ±125 °/s
- ◆ GIROSCOPE CUTT-OFF FREQ 3dB: 12 ; **32** Hz
- ◆ ACCELEROMETER CUT-OFF FREQ 3dB: 10; **19**; 40 Hz
- ◆ ZERO OFFSET: through a CAN message
- ◆ RELATIVE POSITION ON-VEHICLE: set through a CAN message



!!! Reserved CAN address used for internal and can settings: 0x0E5 !!!

Complete CAN protocol file is available, on request, in the user manual.



Quote in mm