



DATA SHEET - DIS NOYCE

The Noyce is a CANBUS data tracker, a very low power, water resistant, tracking sensor with LTE Cat M1 and NB-IoT connectivity. It can receive and send CAN data and is configurable to the settings of the CAN controller of the machine.



Cell-Locate + GPS &
LTE-Cat-m1 + NB-IoT



Small dimensions vs
200 days batterylife



Unique movement
detection algorithm

Facts and numbers

Hardware specs DIS Noyce

MODULE

Name: Noyce - Machine CANBUS data module and tracker

POSITIONING GNSS

GNSS GPS, QZSS
Available Outside on request
Position accuracy < 5 m (CEP50)
Hot start 1.3 s
Cold start 36 s

POSITIONING GEOLOCATE

Method Based on multiple cell towers (when in reach)
Available Inside and outside
Position accuracy < 50m urban area, < 200m countryside
Hot start 1.3 s
Cold start 30 s

CONNECTIVITY

LTE modem LTE Cat M1, NB-IoT
Frequency range 700MHz to 2.2GHz
Max. LTE data rate 375kbs (LTE Cat M1), 60kbs (NB-IoT)
SIM Embedded sim

POWER

Batteries 3.7 Volt. 750mAh. LiFePo₄ rechargeable
Charge voltage 5 - 24 Volt. (DC)
Lifetime (not charged) 200 days (location heartbeat)

CANBUS FUNCTIONALITY

Protocol CAN 2.0 A/B (ISO-11898 standard)
Speed Up to 1 Mb/s operational
Functions Transmit, receive
Endianness Little, Big

OPERATING ENVIRONMENT

Optimum temp. 20 C°
Deep sleep temp. 0 C°
IP rating IP67
Max. exposure -20 / +65 C°

CERTIFICATION

Regulatory CE, EMC, RoHS

FEATURES

Configuration tracker Update over the air
Configuration CAN With user interface
Identifier Unique Global Returnable Asset Identifier (GRAI) number
Profile Sends heartbeat message periodically when not powered
Sends* received CAN data when active
Update** CAN profile remotely
Panic mode Sends multiple messages if panic mode is active
Accurate position Smart combination between cell locate and GNSS

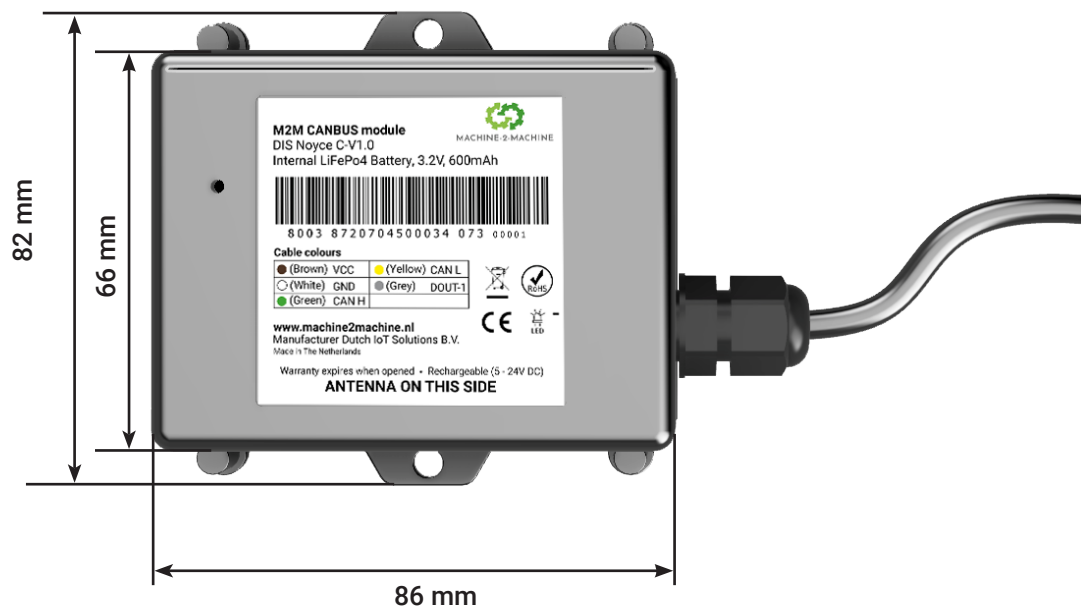
* Interval configurable

** CAN controller needs to be suitable



Facts and numbers

Dimensions



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