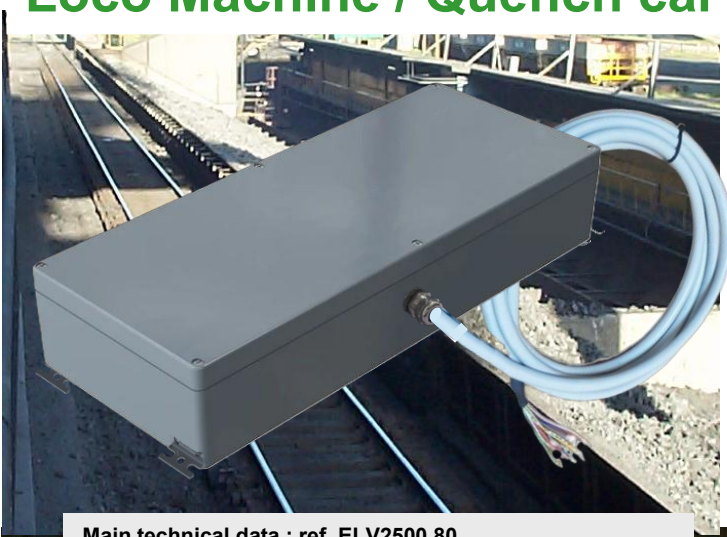
# VEROLINE® .I. sensor *Generation 2*

NEW 2025

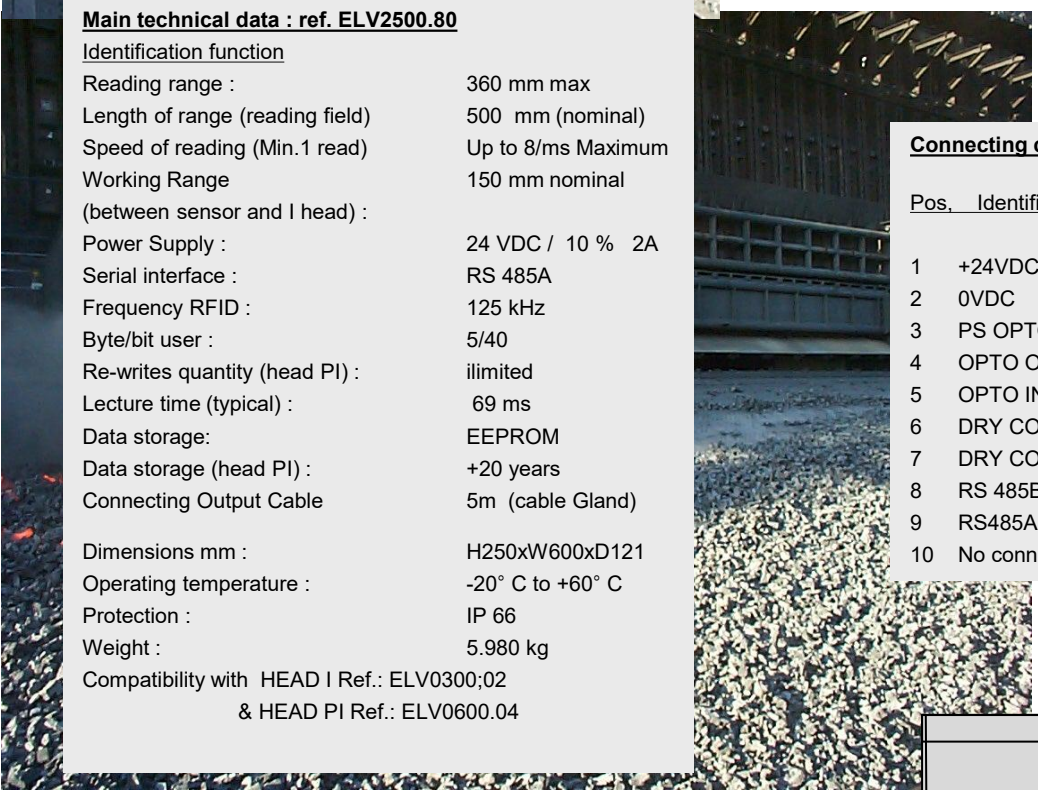
## Contactless Reader for Identification of coke plant machines as :

## Loco Machine / Quench car



- **Sustainability of the VEROLINE concept**
- **Compatibility with the old VEROLINE I signals**
- **Increased performances**
- **Integration of current technologies**

**Keep & Read HEAD I already installed on way**



**Main technical data : ref. ELV2500.80**

| Identification function | |
|---|---|
| Reading range : | 360 mm max |
| Length of range (reading field) | 500 mm (nominal) |
| Speed of reading (Min.1 read) | Up to 8/ms Maximum |
| Working Range (between sensor and I head) : | 150 mm nominal |
| Power Supply : | 24 VDC / 10 % 2A |
| Serial interface : | RS 485A |
| Frequency RFID : | 125 kHz |
| Byte/bit user : | 5/40 |
| Re-writes quantity (head PI) : | ilimited |
| Lecture time (typical) : | 69 ms |
| Data storage: | EEPROM |
| Data storage (head PI) : | +20 years |
| Connecting Output Cable | 5m (cable Gland) |
| Dimensions mm : | H250xW600xD121 |
| Operating temperature : | -20° C to +60° C |
| Protection : | IP 66 |
| Weight : | 5.980 kg |

Compatibility with HEAD I Ref.: ELV0300;02
& HEAD PI Ref.: ELV0600.04

**Connecting cable 5m**

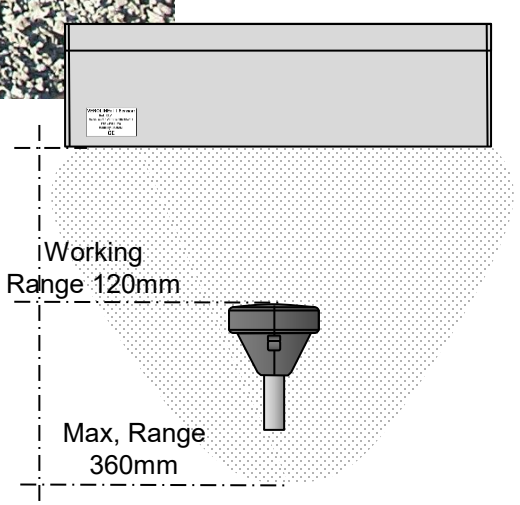
| Pos, | Identification function | Color |
|---|---|---|
| 1 | +24VDC PS | RED |
| 2 | 0VDC | BLUE |
| 3 | PS OPTO IN 24VDC-48VDC | WHITE |
| 4 | OPTO OUT SIGNAL | PURPLE |
| 5 | OPTO IN 0VDC | BLACK |
| 6 | DRY CONTACT T° | PINK |
| 7 | DRY CONTACT T° | GREY |
| 8 | RS 485B | GREEN |
| 9 | RS485A | YELLOW |
| 10 | No connected | BROWN |

## Compatible with existing systems

**Separated Antenna 400 x 600mm**
**Ref.: ELVA500.01**

Phase OUT 2016

**Connecting box ICR210**
**Ref.:ELV2500.01**

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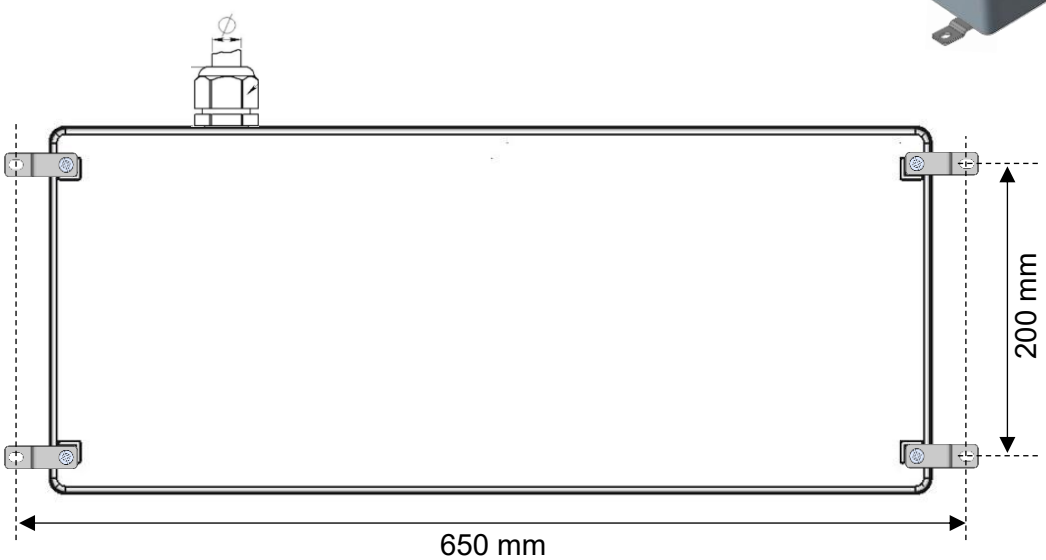
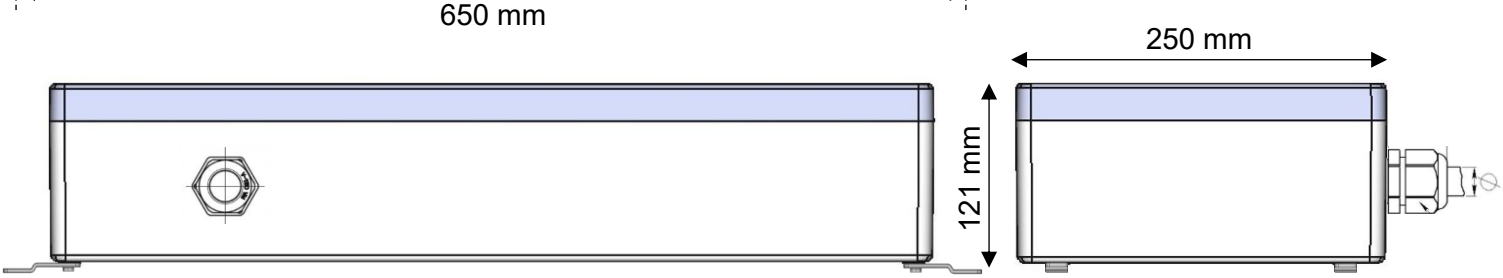
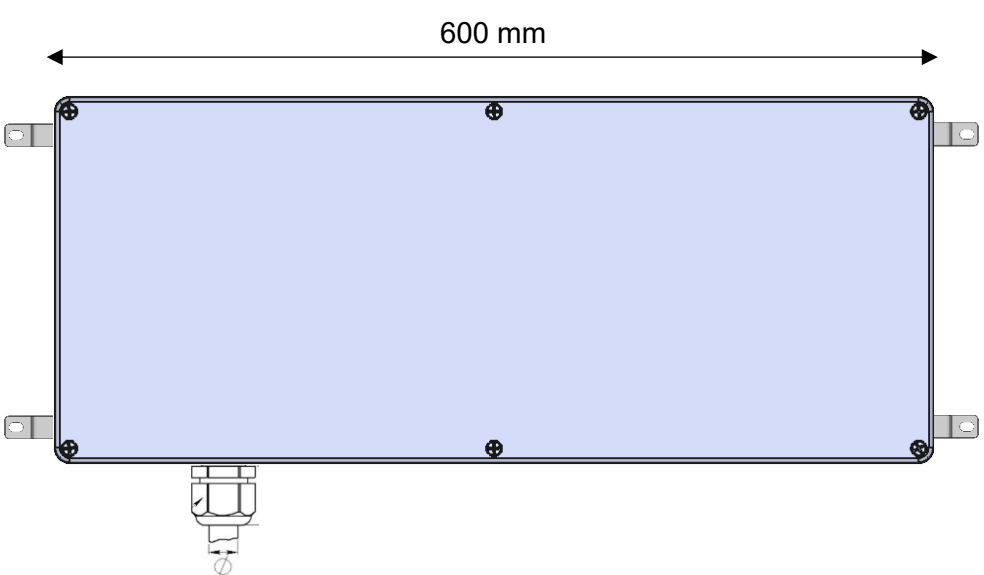
# VEROLINE® .I. sensor *Generation 2*

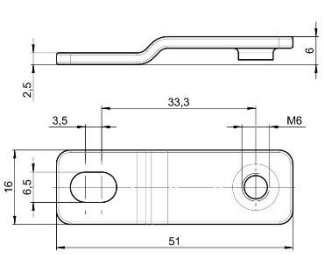
## TECHNICAL DATAS: SIZES AND FIXATION

Mounting method for the VEROLINE IG2 enclosure using a 2.5-mm stainless-steel bracket.
Required screws: 4x M6

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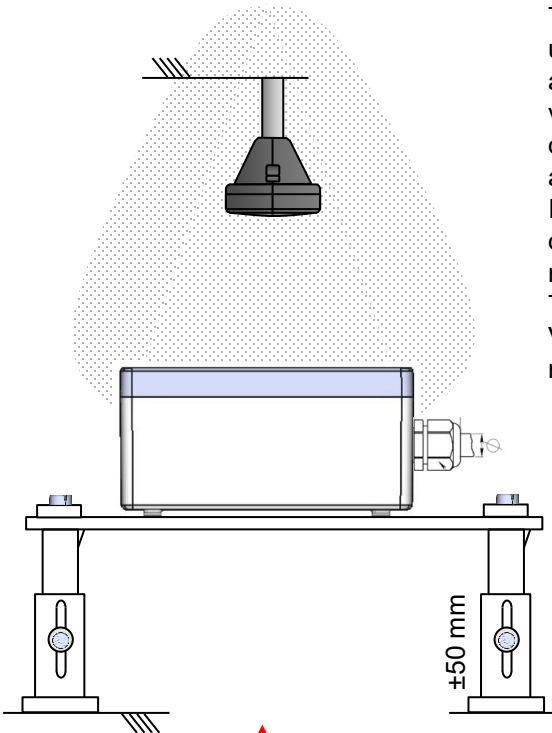
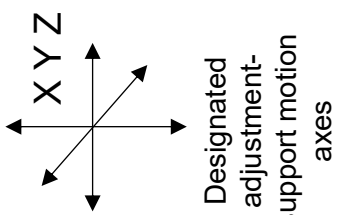
## TECHNICAL DATAS: *ADJUSTING SUPPORT*

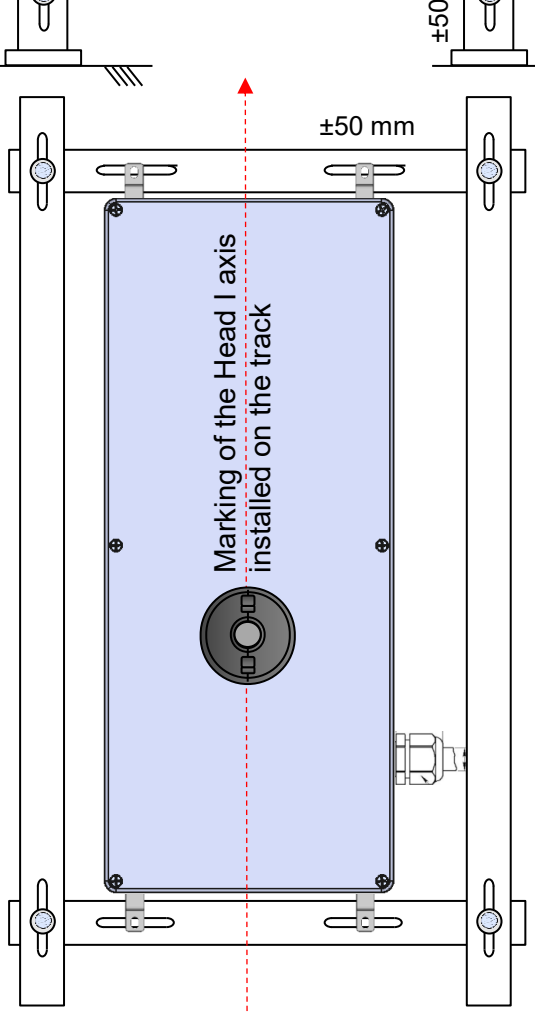
Mounting method for the VEROLINE IG2 enclosure using a 2.5-mm stainless-steelbracket.
Required screws: 4x M6

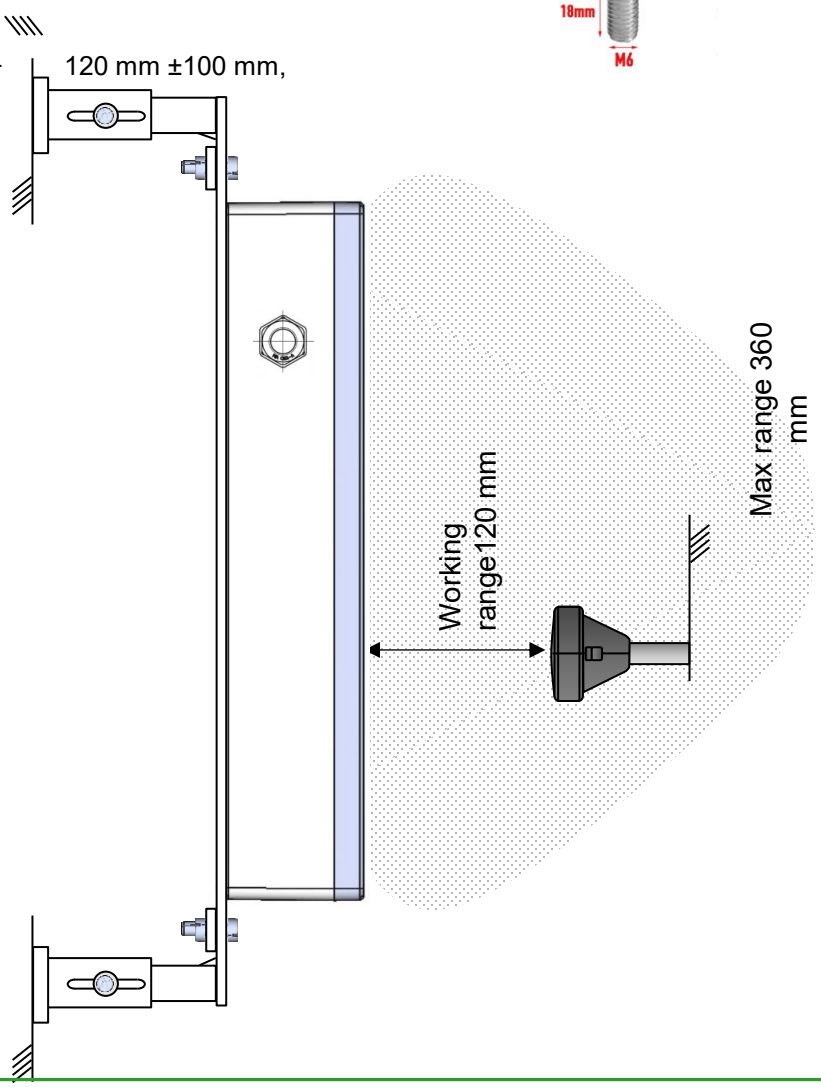
The VEROLINE IG2 sensor shall be mounted on the loco machine using a support that enables adjustment along the three axes X, Y, and Z relative to the HEAD I units installed along the track. The vertical adjustment, as well as the adjustment along the reading axis of the HEAD I, must allow a minimum range of ±50 mm. The adjustment of the distance between the VEROLINE IG2 and the Head I units must be 120 mm ±100 mm, with 120 mm being the nominal operating and reading distance that guarantees performance even at maximum locomotive speed.
The support shall be designed to prevent vibration transmission to the VEROLINE IG2 sensor. M6 silent blocks may be added to the mounting brackets to absorb vibrations.





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