

USE

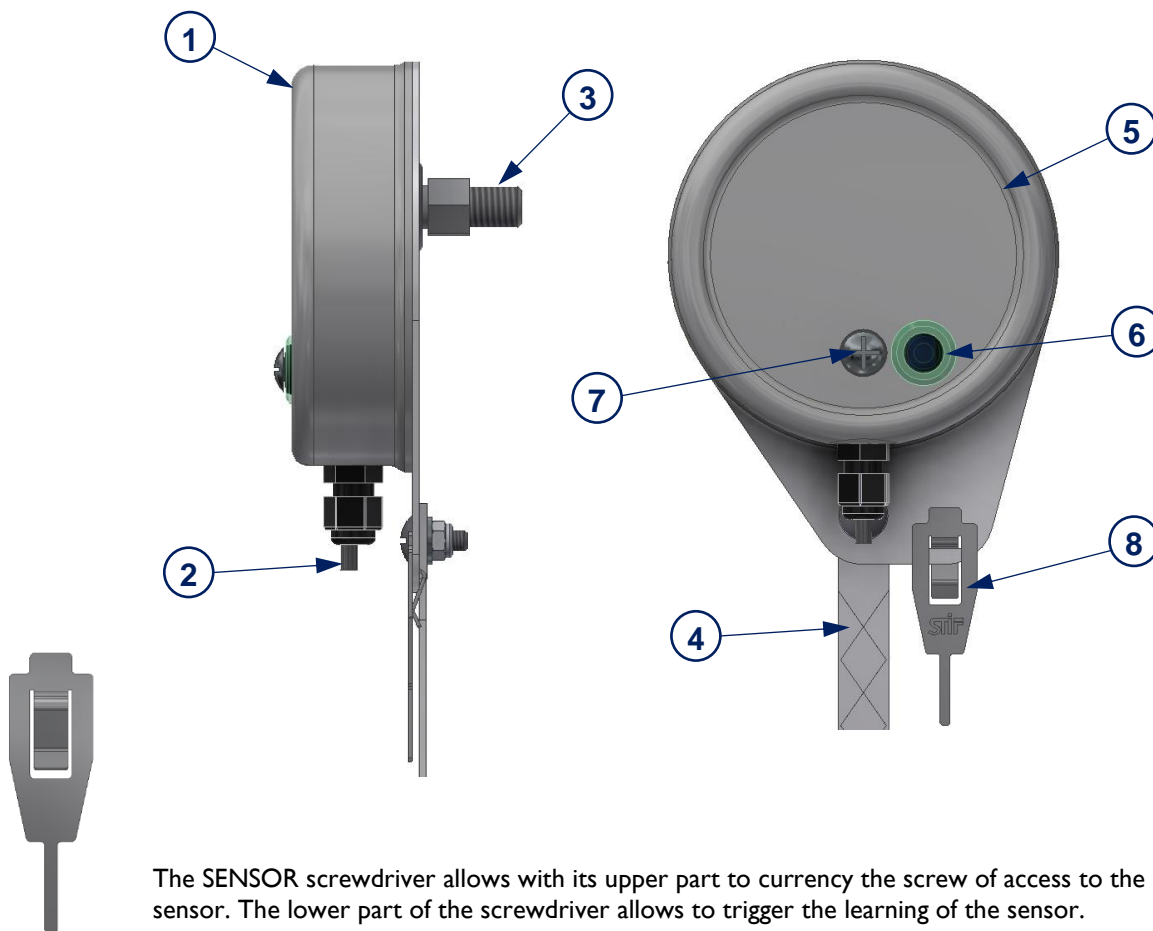
- The purpose of the VIGIRO® SV26 is to control the constant speed of a rotating shaft, so as to identify any abnormality in dangerous underspeed.
- The VIGIRO® SV26 incorporates a programmable rotation controller for thresholds of -33%/-20%/-11%/-6% underspeed. It is commonly installed on bucket elevators, chain conveyors, mixers, rotary valves, belt conveyors, etc.
- The VIGIRO® SV26 is fixed directly at the end of the shaft by an M12 tapping for the standard version or M10 on request, either with the **EAZY-FIX** (magnetic fixation) for a quick commissioning without tapping.

DESCRIPTION

- The VIGIRO® SV26 is a compact device composed of the following elements:
 1. Protection skin in stainless steel.
 2. Connecting cable 2m (or 3 wires).
 3. Standard M12 threaded rotation axis (M10 on request) for fixing at the end of the shaft.
 4. Anti-rotation strap.
 5. Detectable 2-blade propeller (optional 4-blade propeller) located inside the protection.
 6. Transparent window.
 7. Programming button access screw.
 8. SENSOR screwdriver

Possible adjustment of the VIGIRO® SV26

- Rotation frequency to respect 0.5... 500 rpm or 1... 1000 pulses/min.



The SENSOR screwdriver allows with its upper part to currency the screw of access to the sensor. The lower part of the screwdriver allows to trigger the learning of the sensor.

PRECAUTIONS



The VIGIRO® SV26 must be installed, connected and put into service only by competent personnel. The staff must have electrical authorizations, know the regulations and provisions concerning the installation of these devices, in particular for the Ex II3D version integrated into ATEX zones.

- Carry out beforehand an electrical connection study to install the VIGIRO® SV26 (standardized electrical diagram, power supply and electrical protection, plc control, ATEX zones).
- Define the under-speed threshold to be applied to secure the bucket lift or belt conveyor in order to avoid any risk of heating (example: Engine stop underspeed threshold defined at 6% between the speed observed on the pulley driven and the nominal speed of the motor pulley).
- Check that the temperature range of use of the VIGIRO® SV26 (variable according to version) corresponds to that of your application.
- Check during the first commissioning of the bucket lift in the handling phase that the VIGIRO® SV26' remains stationary and held by its anti-rotation strap (only the axis of the VIGIRO® SV26 must be rotated).
- Shut down the bucket lift or belt conveyor to a standstill (off) before any installation or intervention on the VIGIRO® SV26 (intervention information to be indicated on the machine).

Optional **EAZY-FIX** (magnetic fixation without tapping) :

The **EAZY-FIX** can't be installed on a stainless-steel shaft.

Ensure that the bearing surface of the shaft is clean and plane.

Take precaution during installation of the **EAZY-FIX** because its very strong magnetic force of attraction can cause pinching injury.

CAUTION... The magnetic field of the **EAZY-FIX** may damage some sensitive system such as magnetic tracks or tapes, certain watches, etc...

EAZY-FIX (M12)



INSTALLATION

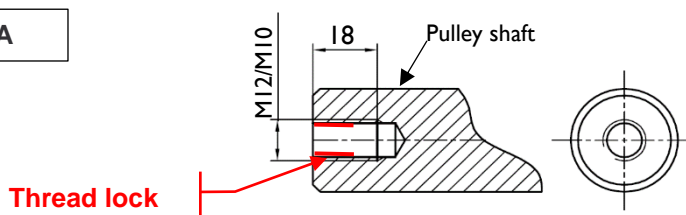
Assembly without EAZY-FIX

Perform a M12 tapping (optional M10) at the end of the pulley shaft with a minimal depth of 18mm following drawing A (Be careful to center the tapping to avoid eccentricity effects in service).

Coat the tapping with removable thread locker, then screw the VIGIRO® SV26 on the pulley shaft with a 16mm open-end wrench.

Make sure to respect the setting time of the thread lock before using it for the first time.

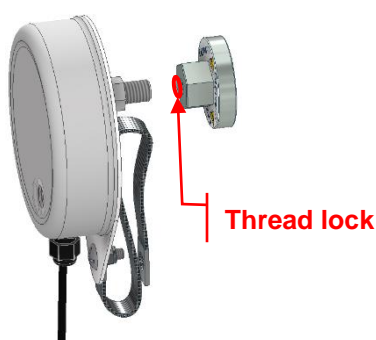
Drawing A



Assembly with EAZY-FIX (optional)

Coat the tapping with removable thread locker of the optional **EAZY-FIX**, then screw the VIGIRO® SV26 on the **EAZY-FIX** with a 16mm open-end wrench.

Make sure to respect the setting time of the thread lock before using it for the first time.

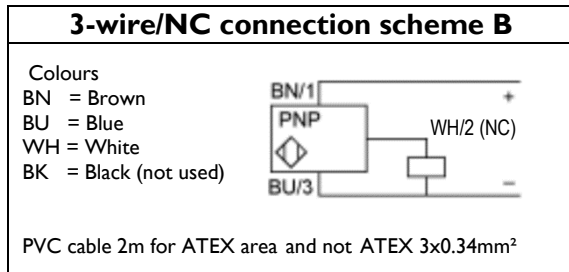


Magnetic hold at the end of the shaft



Finish by fixing the anti-rotation strap without creating tension between the VIGIRO® SV26 and the anchor point.

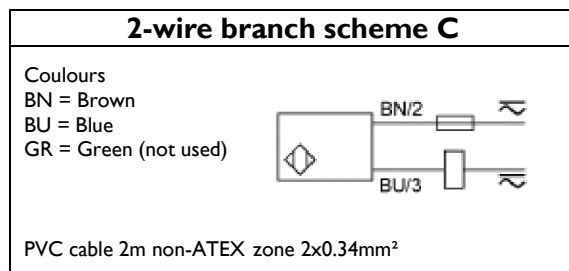
Electrically connect the VIGIRO SV26® by respecting the electrical scheme B or C and the operating conditions depending on the version used, 2-wire or 3-wire:


For low voltage sensor, ATEX or not

- 3-wire cable connection
- L=2m cable
- Voltage 12-24V DC
- Voltage limits, including ripple, 10-36V DC
- Switching power ≤ 100mA
- temperature Operating: -25... 70°C
- temperature Operating: -20... 60°C (ATEX)
- Protection - IP67



Caution: Any connection must be made outside the ATEX zone


For multi-voltage sensor, out of ATEX zone

- 2-wire cable connection
- L=2m cable
- Voltage 24... 240V AC/DC
- Voltage limits, ripple included 20... 264V AC/DC
- Residual voltage at nominal I ≤ 5.5V
- Switching power 5... 1.00 mA AC/DC
- temperature Operating: -25... 70°C
- Protection - IP68



It is imperative to put in series with the load a fast-acting fuse of 0.4A

CONTROL & PERIODIC MAINTENANCE

- 1) To ensure the functional integrity of the VIGIRO® SV26, you must schedule periodic inspections. The frequency of inspections must be sufficient to avoid dangerous situations (situations that affect the intrinsic operation of the VIGIRO® SV26).
- 2) During these inspections, check that the VIGIRO® SV26 is not affected by the following defects: dust layer >2mm, fixing the axis of the VIGIRO® SV26, degraded or unfixed anti-rotation strap, non-operational power-on LEDs, degraded electrical wiring, shocks on the envelope of the VIGIRO® SV26, etc...
- 3) In the case of one or more defects found, you must proceed with the restoration in order to correct the defect(s) before you can use the bucket lift or belt conveyor again.
- 4) Only personnel trained and authorized in maintenance procedures for equipment are able to carry out inspections of the VIGIRO® SV26.

DISPOSAL

When dismantling the VIGIRO® SV26, the user must ensure the proper disposal of this device and hand over to the specialized harvesting centers the components according to their nature (stainless steel, electrical equipment, seal, etc.).

i In the event that the VIGIRO® SV26 is used, controlled, under conditions contrary to the precautions described in this instruction manual, STIF declines all responsibility for damage caused to man, animal, environment, material property.