

USE

- The VIGIRO[®] IP26 was engineered in order to control the constant speed of a rotative shaft. It is used for the identification of dangerous under speed and/or the control of the production's performance.
- It is equipped with a pulses meter which is either connected on a pre-set machine or an independent security module to identify the nominal pulses' frequency at the outlet. It is frequently installed on buckets' elevators, chain conveyors, mixers, rotary valves, belt conveyor etc.
- The VIGIRO[®] IP26 gets fixed either directly at the end of the rotating shaft with M12 tapping (M10 optional), either with the **EAZY-FIX** (magnetic fixation) for a quick commissioning without tapping.

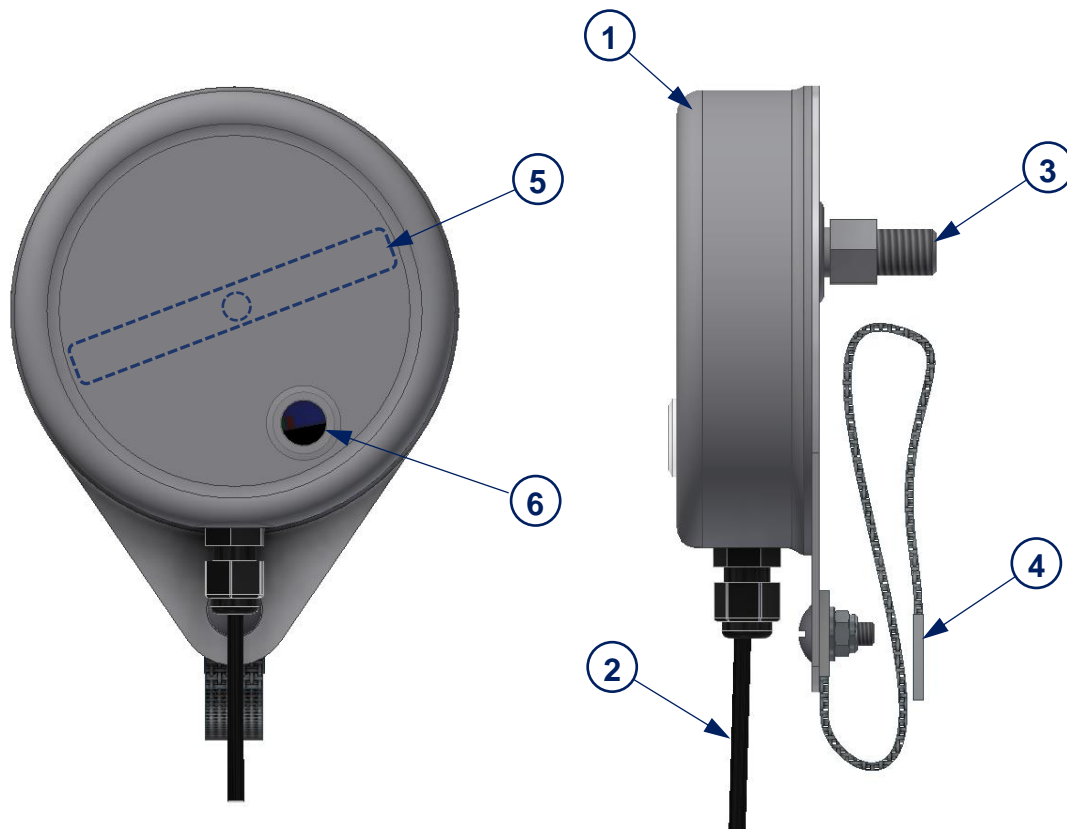
DESCRIPTION

The VIGIRO[®] IP26 is a compact device compose of the following components:

1. Protection skin in stainless steel
2. Connecting cable 2m (2 or 3 wires)
3. M12 thread rotative axe in standard fabrication (M10 optional) for the fitting to shaft.
4. Anti-rotation strap
5. Detectable 2-blade propeller (optional 4-blade propeller) located inside the protection
6. Transparent window

Possible adjustment of the VIGIRO[®] IP26

- Rotative frequency to be respected 0.5...500tr/min or 1...1000 impulsions/min.



PRECAUTIONS



The VIGIRO[®] IP26 should be installed and connected exclusively by competent personnel. The personnel need to have electrical accreditation, a knowledge of the regulation and the disposition concerning the installation of those device, especially for Ex II3D version integrated in ATEX zones.

Perform before head a study of electrical connection to instal the VIGIRO[®] IP26 (standardized electrical diagram, electrical power and protection, autopilot, ATEX zones).

Define the under-speed threshold to apply for the security of the bucket elevator or the belt conveyor to avoid any risk of overheating (ex: Engine stopping under-speed threshold defined at 6% between the speed observed on the driven pulley and the nominal speed of the driving pulley).

Control that the operating temperature range of the VIGIRO IP26[®] (variable depending on version) corresponding at your application.

Verify during the first commissioning of the bucket elevator, in handling stage, that the VIGIRO IP26[®] stay still and maintained by its antirotating strap (only the VIGIRO IP26[®] shaft should be rotating).

Shut down the bucket elevator or the belt conveyor (de-energized) before any intervention on VIGIRO IP26[®] (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)

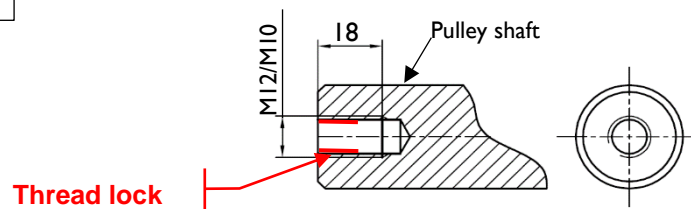


INSTALLATION

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).

Drawing A



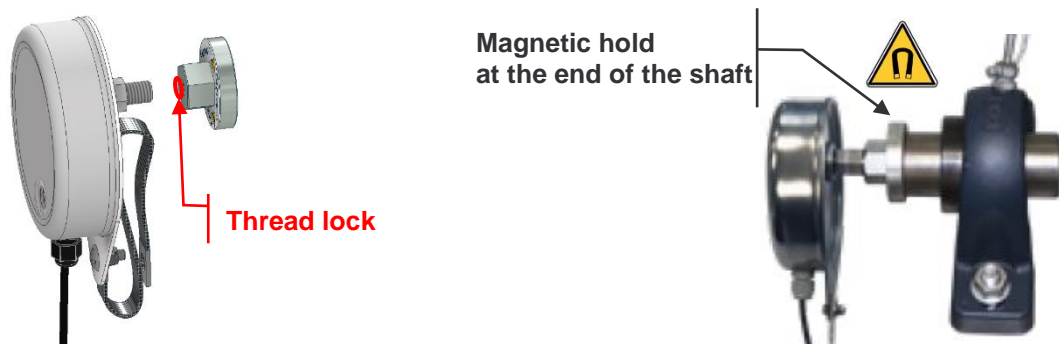
Coat the tapping with removable thread locker, then screw the VIGIRO[®] IP26 on the pulley shaft with a 16mm open-end wrench.

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

Assembly with EAZY-FIX (optional)

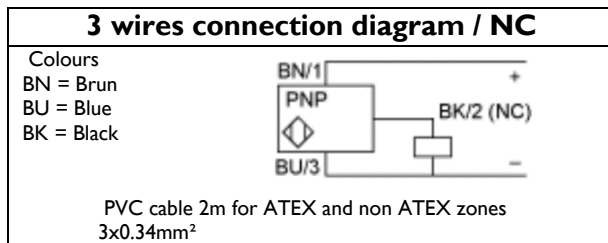
Coat the tapping with removable thread locker of the optional **EAZY-FIX**, then screw the VIGIRO[®] IP26 on the **EAZY-FIX** with a 16mm open-end wrench.

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



Finish by fixing the anti-rotation strap without creating tension between the VIGIRO[®] IP26 and the anchor point.

- Electrically connect the VIGIRO® IP26 according to the appropriate diagram.

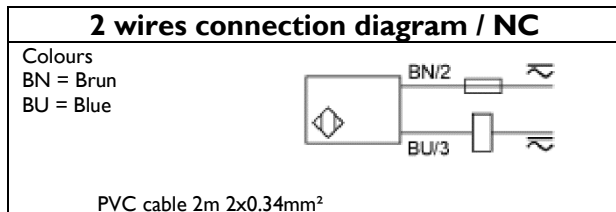


For low tension sensor, ATEX or not

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



Warning: All connections must be made outside the



For multi-voltage sensor, outside ATEX zone

- Connection by 2-wire cable
- Cable L=2m
- Voltage 24...240V AC/DC
- Voltage limit, including ripple, 20...264V AC/DC
- Residual voltage at I nominal ≤ 5.5V
- Switching power 5...200 mA AC/DC
- Operating temperature: -25...70°C
- Protection - IP68



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

PERIODIC CHECKS & MAINTENANCE

- To guaranty the operational integrity of the VIGIRO IP26®, you must plan periodical inspections. The frequency of the inspections must be enough to avoid any dangerous situations (situations that could have an incidence for the intrinsic functioning of the VIGIRO IP26®).
- During those inspections, check that the VIGIRO IP26® is not affected by the following defect: dust layer > 2mm, VIGIRO IP26® shaft fixing loose, degraded or loose anti-rotation strap, power-on LED not operational, degraded electrical wiring, shock on the VIGIRO IP26® casing, etc ...
- In the case of one or multiple defects, you must carry the repair in order to correct the defect(s) before you can use the bucket elevator or the belt conveyor again
- Only personnel trained and authorized in the maintenance procedures for this equipment are able to carry out inspection of the VIGIRO IP26®.

SCRAPPING

When dismantling the VIGIRO IP26®, the user must ensure that this device is properly disposed of and hand over to specialized collection centres the components according to their nature (stainless steel, electrical equipment, seals, etc.).

i In the event that the VIGIRO IP26® is used, controlled, under conditions contrary to the precautions described in this instruction manual, STIF declines all responsibility for damage caused to humans, animals, the environment or property materials