



SYNCHRONIZATION PROBE

1/Rev Reference

Thanks to an associated target, the synchronization probe is an inductive device that provides a one pulse per revolution reference signal for determining angular position.

The probe is positioned facing the target, which is glued to a generator shaft, and can be adjusted thanks to provided adjustment screws. A signal pulse is generated and transmitted to the acquisition units at each passage. The pulse obtained by the synchronization probe serves as basis to all the measurements acquired by the VibroSystemM monitoring system.

Technical Specifications

Operation

- Measuring range 4 mm [157 mils]
- Recommended target distance from probe tip 2 ± 0.5 mm [79 \pm 20 mils]
- Switching frequency 2 kHz max. (target passage duration: 500 μ sec min.)
- Output circuit Open collector transistor (NPN, normally open)
- Output current 200 mA max.
- Voltage drop 2 Vdc max.
- Short circuit protection Built-in

Power Requirements

- Voltage 10 to 30 Vdc
- Consumption 10 mA max.
- Load resistance 150 Ω min. (Pull-up)
- Reverse polarity protection Built-in

Connection

- Connector type 3-pos removable terminal block with screw-type connection
- Maximum cable length 300 m [984 ft]

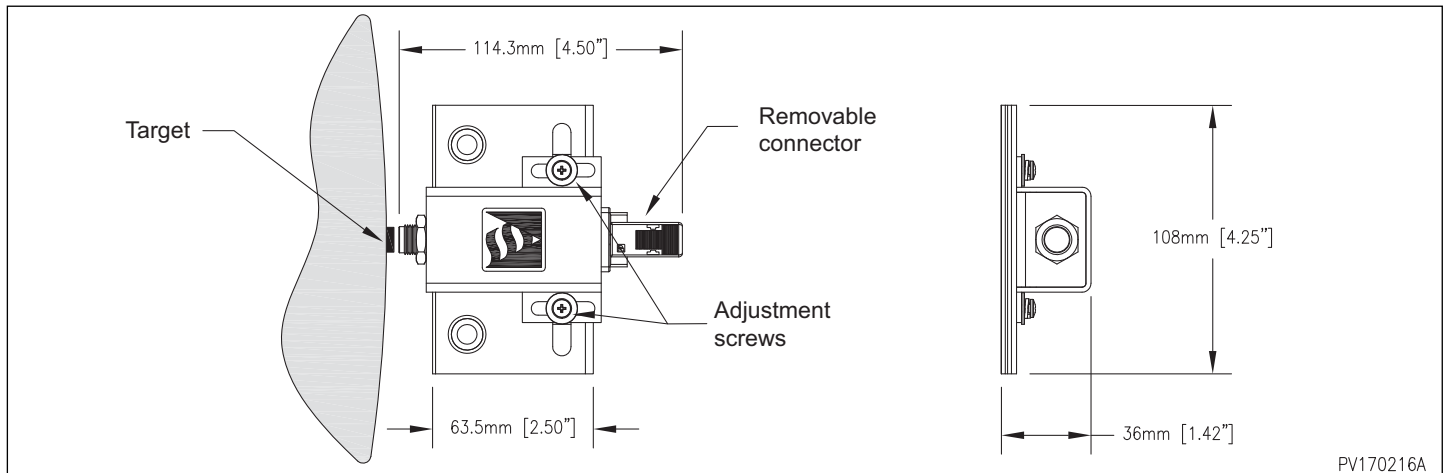
Environmental

- Temperature range
 - Operating 0 to 70°C [32 to 158°F]
 - Storage -25 to 70°C [-13 to 158°F]

Physical Characteristics

- Probe materials
 - Head PBT plastic
 - Casing Aluminum
 - Connector Plastic
- Target material Steel
- Target dimensions 20 mm x 10 mm x 3 mm [0.79 in x 0.39 in x 0.12 in]

Dimensions



PV170216A

Publication: 2016-02-23