



## SYNCHRONIZATION PROBE

### 1 / Rev Reference

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

The probe faces the generator's shaft with its target mounted on the shaft itself. At each passage of the target, a pulse signal is generated and transmitted to the acquisition units. This pulse is the basis for all measurements obtained by the monitoring system.

### General Specifications

#### Operation

• Measuring Range	4 mm [157 mils]
• Recommended Target Distance	2 ± 0.5 mm [79 ± 20 mils]
• Maximum Switching Frequency	< 2 kHz (target passage duration: 500 µsec min.)
• Output Circuit	Open Collector Transistor (NPN)
• Output State Indicator	Red LED
• Output Current	< 200 mA
• Voltage Drop	< 2 Vdc
• 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
• Extension Cable Maximum Length	300 m [984 ft]

#### Environment

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

#### Physical Characteristics

• Probe Material	
Head	Polybutylene terephthalate
Casing	Aluminium
Connector	Plastic
• Target Material	Steel
• Target Dimensions	20 mm x 10 mm x 3mm [0.79 in x 0.39 in x 0.12 in]

### Dimensions

