FIXED LED-STROBOSCOPE

PCE-LES 400



- **frequency: 50 ... 36000 FPM**
- **doubling/division of FPM**
- **light source 20 LEDs**
- **2.4" LC display**
- **flash frequency units: FPM, Hz, m/min**
- **illuminance: 1590 Lux @ 36000 FPM / 10 cm**
- **phase shift: 0 ... 359 °**
- **flash duration 1 ... 3 %, max. 100µs**
- **trigger input**

A Tachometer is a device for permanent installation that generates rapid flashes of light with energy-efficient and long-lasting LEDs. With a wide measurement range of 50 ... 36,000 FPM, a high resolution of 0.1 FPM and an accuracy of 0.01 %, it offers precise and reliable measurements.

Our Tachometer can be triggered both internally and externally and supports four external trigger modes. The sensor supply is 12 V and 50 mA with a minimum pulse width of 20 µs. The flash duration varies between 1 and 3 % of the period with a maximum duration of 100 µs. A phase shift of 0 ... 359° can be set and this enables flexible adaptation to different requirements. With an illuminance of 1590 lux at 36,000 FPM and a light source consisting of 20 LEDs, this Tachometer produces intense and clear flashes of light. The 2.4-inch LC display ensures user-friendly operation. In addition, the device can double or halve the frequency of the light flashes (FPM), making quick adjustments possible. The compact dimensions of 150 x 115 x 130 mm allow easy mounting on an aluminium slot profile. Power is supplied via 220 V AC at 50 Hz, which ensures stable and reliable operation.

Our Tachometers are used in industry for machine monitoring and quality control, in scientific research for motion analysis and in medicine for special diagnostic procedures. Their reliability, energy efficiency, durability and low heat generation make them a versatile and efficient solution for various applications.

Specification

Frequency	
Measuring range	50 ... 36000 FPM
Resolution	0,1 FPM
Accuracy	±0.01% of the measured value (of m.v.)

Frequency	
Measuring range	1 ... 600 Hz
Resolution	0,01 Hz
Accuracy	±0.01% of the measured value (of m.v.)

General technical data	
Units	Hz, f/m, m/min
Display Typ	Graphic LCD
Display size	2,4 Inch
Light source	20 LED's
Luminous intensity	1590 Lux @ 36000 FPM / 10 cm
Phase shift	0 ... 359 °
Pulse width	Flash duration 1 ... 3 %, max. 100 µs
Trigger input	greater than + 2.5 V peak, 20 µs min. Pulse width Sensor supply: 12 V, 50 mA
Menu language	English (US), Chinese
Protection class (device)	IP20
Power supply	220 V AC | 50Hz
Connector type	Earthing contact plug
Operating conditions	0 ... 50 °C , 0 ... 95 %RH
Storage conditions	0 ... 50 °C , 0 ... 95 %RH
Dimensions (L x W x H)	150 x 115 x 130 mm
Weight	1280 g

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