

BATTERY POWERED DIGITAL STROBOSCOPE

**** code 186F ****

Hand held stroboscope for non-contact determination of revolutions, for monitoring moving parts and ascertain the oscillation frequency of running systems.

Particularly suitable for the control of ring, spinning frames, twisting, knitting and hosiery machines.

Mains or battery operated.

LED display.

Stroboscope with big reflector.

Measuring range: 40 – 35.000 flashes per minute (rpm, min⁻¹). Frequency range 0.7 – 585 Hz.



Technical Features

- Combined battery and mains operated.
- Stroboscope with LED display.
- Big reflector for good illumination of the monitored object.
- 350 Lux light intensity (approx., depending on flash rate) at a distance of 50 cm.
- Double-flash-function (x 2) und half-rate-flash function (: 2) for easy and fast determination of the true flash rate.
- Fine phase shift adjustment (from 0° up to 359°) for a sharper observation of objects in slow-motion
- Flash delay switch to move a freezed object slowly within 6 s.
- Output signal to synchronize and trigger more stroboscopes.
- Easy to operate controls.
- Detachable pistol-grip handle and mounting possibility on tripod.
- Xenon-longlife flash tube.
- Rugged aluminium housing.
- Certificate of Compliance with the order 2.1 according to EN 10204 is included.

Operating details

1. **Signal Switch** for switching from internal to external signal (triggering).
2. **x 2 Switch** for doubling the flash rate.
3. **: 2 Switch** for dividing the flash rate.
4. **Speed Selector** for setting the flash frequency and delay angle for trigger mode.

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5. **Input** (trigger signal) **Output** (for sensor connection).
6. **Display Unit Switch** (only in trigger mode)
 - **rpm**: Displays flashes per minute from 40.0 to 35000 min⁻¹.
 - **deg**: Displays flash delay angle in degrees from 0 to 359°.
 - **msec**: Displays the flash delay time in milliseconds.
7. **+ Switch**: When an object appears to be standing still, by pressing this switch, it will give the illusion that the object is moving towards the rotating direction at a speed of 1 rotation in 6 seconds.
8. **- Switch**: When an object appears to be standing still, by pressing this switch, it will give the illusion that the object is moving in the reverse direction at a speed of 1 rotation in 6 seconds.
9. **Power Switch**.



Available models

Model	Description
186F	mains or battery operated
	As alternative
186E	mains operated

Spare parts

	Flash tube code 186F.264
	Spare Accumulator code 186F.272 4-pole connector (current version)

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	Spare Accumulator code 186F.270 2-pole connector (old model)
	Spare Accumulator 186F.268 4-pole connector (old model)

Delivery includes

	Stroboscope with case, 1 trigger plug, 1 pistol-grip, AC adapter/recharger, Certificate of Compliance with the order 2.1 according EN 10204 free of charge, Operating instructions manual.
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Specifications

Flash range:	0.7 - 585 Hz = 40 - 35000 min ⁻¹ (rpm) automatic range control
Accuracy:	±0.1 % of reading, ±1 digit
Resolution:	40 - 4999 min ⁻¹ : 0.1 min ⁻¹ ; 5000 - 7999 min ⁻¹ : 0.2 min ⁻¹ 8000 - 9999 min ⁻¹ : 0.5 min ⁻¹ ; 10000 - 35000 min ⁻¹ : 1 min ⁻¹
Light intensity:	Approx. 350 Lux (depending on flash rate) at a distance of 50 cm
Flash duration:	10 - 40 µsec
Display update time:	Approx. 0.2 s
Temperature range:	5 - 45 °C
Display:	5-digit LED, 10 mm high
Flash tube:	Xenon, 10 W (100 million flashes), colour white 6500K
Phase shift:	0° - 359° (in 1° resolution)
Triggering input signal:	H-Level: 2.5 - 12 V L-Level: 0 - 0.8 V, pulse width minimum 50 µs, positive edge trigger; input resistance approx. 4.7 kΩ
Output signal:	12 V ±0.6 V DC, 40 mA, 400 µsec
Tripod fixing:	1/4"

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Power supply:	10.5 - 15 V DC (2.3 A), NiCd battery (1 h continuous use) and/or AC adapter 100...230 V DC
Air humidity:	85 % RH, max.
Dimensions:	250 x 120 x 120 mm (LxWxH)
Weight, net (gross):	Approx. 2.000 g (ca. 3.200 g)
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