



Industrial High-Performance Stroboscope System

DRELLOSCOP 3020

... high performance – various applications

- selection of different lamps for individual industrial applications
- wide-area illumination with a light intensity up to 12750 lux (@ 100 cm)
- flash frequency up to 416 Hz / 25000 min⁻¹
- internal and external control of the flash rate
- slow-motion function
- adjustable phase shift between external trigger and flash
- clock pulse output for synchronisation of further devices
- master/slave operation (e.g. with DRELLOSCOP 3018)
- remote control unit (optional)
- serial interface RS-232 (optional)

DRELLOSCOP 3020

DRELLOSCOP 3020 – The robust, high-performance stroboscope system offers three selectable lamp models and is designed for various industrial applications. The flash frequency can be controlled internally or externally. An output signal is provided for synchronization of external devices. The slow motion function and phase shift available for external triggering give individual options for a wide range of uses, among others vibration analysis, rotational speed measurement, cavitation analysis, and quality control.



Handheld lamp HL 4037



Splash-proof lamp LE 4040



Splash-proof wide-beam lamp LE 4047

Functions

- internal and external control of the flash rate
- clock pulse output for synchronisation of further devices
- slow-motion function for external triggering
- adjustable phase shift between external trigger and flash

Technical Data

Control unit DRELLOSCOP 3020

Power supply	230 VAC, 50 – 60 Hz (optional 115 VAC)
Power consumption	max. 900 W
Dimensions incl. handle (W x H x D)	450 x 133 x 375 mm
Weight	approx. 17 kg
Frequency range in Hz/min ⁻¹	0.5 – 416 Hz / 30 – 25000 min ⁻¹ (HL 4037 / LE 4040 / automatic mode) 0.5 – 240 Hz / 30 – 14400 min ⁻¹ (LE 4047)
Internal control of the flash rate	twist knob
External control of the flash rate	external transducer, pos. impulses, 0.5 – 30 Vs or sine voltage 1 – 60 V _{ss}
Trigger output	12 V positive, needle-shaped pulses, internal resistance approx. 1 kΩ
Measured value display	5-digit 7-segment display, display in Hz/min ⁻¹
Phase shifting	0° – 360° (for external triggering)
Slow motion function	beat frequency ± 5.000 Hz (for external triggering)
Flash duration	10 – 25 μs
Serial interface	RS-232 (optional)
Operating temperature	0° ... +50° C
Storage temperature	-20° ... +70° C
Certification	CE

Handheld lamp HL 4037

Light intensity	max. 12750 lux (at a distance of 100 cm)
Illuminated area	Ø approx. 820 mm (at a distance of 100 cm)
Dimensions	Handle: Ø 40 mm, length 120 mm, with tripod thread Reflector: 200 mm, total length: 380 mm
Weight	approx. 1.6 kg (incl. 6 m connection cable and plug)
Light source	quartz flash tube 305-1

Splash-proof lamp LE 4040

Light intensity	max. 12750 lux (at a distance of 100 cm)
Illuminated area	Ø approx. 820 mm (at a distance of 100 cm)
Dimensions (W x H x D)	330 x 230 x 110 mm
Weight	approx. 6 kg (incl. 6 m connection cable and plug)
Protection class	IP67
Light source	quartz flash tube 305-1

Splash-proof wide-beam lamp LE 4047

Light intensity	max. 5300 lux (at a distance of 100 cm)
Illuminated area	approx. 2200 x 1065 mm (at a distance of 100 cm)
Dimensions (W x H x D)	465 x 185 x 250 mm
Weight	approx. 7.4 kg (incl. 6 m connection cable and plug)
Protection class	IP55
Light source	quartz flash tube 103-1

Options

- Remote control 3001 FB
- Serial interface RS-232 for control using ASCII commands via terminal software
- Master/slave synchronization between multiple devices e.g. DRELLOSCOP 3018
- Frequency divider/frequency extension for higher frequencies using external triggering

Revisions in the course of technical progress reserved.
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