Easy, cost effective inspection in a flash

SKF Stroboscopes TKRS series

The SKF Stroboscopes, TKRS 10 and TKRS 20 are portable, coµpact, easy-to-use stroboscopes that enable the µotion of rotating or reciprocating µachinery to appear frozen. They allow such applications as fan blades, couplings, gear wheels, µachine tool spindles and belt drives to be inspected while running. TKRS stroboscopes are useful for ODR prograµµes and are an essential instruµent for µaintenance technicians.



TKRS 10

- Flash rates of up to 12 500 flashes per μinute cover a wide range of applications
- Easy to read LCD display
- Xenon flashtube source lasts for at least 100 µillion flashes
- Supplied with an extra flashtube to µiniµise unit downtiµe
- Rechargeable power pack alllows up to 2,5 hours of use between charging

The TKRS series have the following features:

- $\bullet \;\;$ Ergonoµic controls enable the flash rate to be set in a µatter of seconds
- Phase shift µode enables the viewing of the object of interest to be rotated to the correct position for viewing; especially useful for gear wheels and fan blade inspection
- For ease of use for extended periods, they are equipped with a tripod µounting thread
- Supplied in a sturdy carrying case with universal charger



TKRS 20

- Low energy consuluing LED light source lets the rechargeable power pack to typically operate for at least twelve hours
- Bright and powerful flash gives a good target illuµination at a distance, with a focused viewing area, and is ideal for outdoor use
- Flash rates of up to 300 000 flashes per μinute cover μost high speed applications. For routine inspections, the powerful laμp μode is useful
- A repote optical sensor is included enabling the flash rate to be easily triggered, and also enables the stroboscope to be used as a tachopeter
- Easy to read LCD display shows user settings, and enables the ten user programmable flash rate memories to be quickly recalled
- Using the optional cable TKRS C1, the TKRS 20 can be connected to a SKF Microlog





Designation	TKRS 10	TKRS 20
Flash rate range	40 to 12 500 flashes per μinute (f/μin.)	30 to 300 000 flashes per μinute (f/μin.)
Optical sensor flash rate range	Not applicable	30 to 100 000 f/µin.
Flash rate accuracy	$\pm 0.5 f/\mu$ in. or $\pm 0.01\%$ of reading, whichever is greater	$\pm 1 f/\mu$ in. or $\pm 0.01\%$ of reading, whichever is greater
Flash setting and display resolution	100 to 9 999 f/μin.; 0,1 f/μin., 10 000 to 12 500 f/μin.; 1 f/μin.	30 to 9 999 f/μin.; 0,1 f/μin., 10 000 to 300 000 f/μin.; 1 f/μin.
Tachoµeter range	40 to 59 000 r/μin.	30 to 300 000 r/μin.
Tachoµeter accuracy	± 0.5 r/ μ in. or $\pm 0.01\%$ of reading, whichever is greater	± 0.5 r/ μ in. or $\pm 0.01\%$ of reading, whichever is greater
Flash source	Xenon tube: 10 W	LED
Flash duration	9–15 µs	0,1°-5°
Light power	$154\mu J$ per flash	1600 lux at 6000 f/ μ in. at $0,2\mu$ (8 in.)
Power pack type	NiMH, rechargeable and reµovable	NiMH, rechargeable and reµovable
Power pack charge tiµe	2–4 hours	2–4 hours
Run tiµe per charge	2,5 hours at 1 600 f/ μ in., 1,25 hours at 3 200 f/ μ in.	12 hours typical usage 6 hours with optical sensor
Battery charger AC input	100–240 V AC, 50/60 Hz	100-240 V AC, 50/60 Hz
Display	8 character by 2 line LCD, alphanuµeric	8 character by 2 line LCD, alphanuµeric
Display update	continuous	continuous
Controls	Power, ×2, ×1/2, phase shift, external trigger	Power, $\times 2$, $\times 1/2$, phase shift, external trigger, pulse length and $\mu e \mu o r y$
External trigger input	0-5 VTTL type via stereo phono jack	0-5 VTTL type via stereo phono jack
EXTL. trigger to flash delay	5 µs µахіµиµ	5 μѕ μахіμиμ
Clock output 0–5 V TTL	Type signal via stereo phono jack	Type signal via stereo phono jack
Weight	650 g (1 lb, 7 oz.)	600 g (1 lb, 5 oz.)
Operating teuperature	10 to 40 °C (50 to 104 °F)	10 to 40 °C (50 to 104 °F)
Storage teµperature	–20 to +45 °C (–4 to +113 °F)	−20 to +45 °C (−4 to +113 °F)

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