

A close-up photograph of two black optical fibers. The fiber on the right is in the foreground and is brightly lit from within, showing a clear, circular light source. The fiber on the left is slightly behind and to the side, also illuminated. The background is a deep blue with some blurred mechanical components, suggesting a laboratory or industrial setting.

LED F1 LIGHT SOURCE



LED LIGHT SOURCE WITH FIBRE-OPTIC



LED F1

- ▶ Infinitely variable brightness control
- ▶ No fan (no vibrations, stability)
- ▶ Whenever super-low-noise operation without vibrations is required
- ▶ ESD socket



LED F1 R (with remote socket)

Same as F1, plus:

- ▶ Remote socket for serial interface (RS-232) for computerised control

ACCESSORIES



Adapter for Schott light guides



Serial interface (R 232) for additional control, with memory function.

Weighted insertable module

(no illustration): When using goose-neck light guides the module can be attached to the underside of the light source to enhance its stability.

LIGHT GUIDES

TECHNICAL DATA

COLD LIGHT SOURCE		LED F1 (633-20-00299)	LED F1 R (633-20-00399)
Lamp		high-power LEDs	
Control range		min. 30:1	
Colour temperature		5 500 K (daylight)	
Power input		22 W	
Power supply		24 V DC +/- 5%; 100 mA; socket for hollow pin 5.5 x 2.1 mm	
Brightness control		infinitely adjustable using rotary potentiometer; with index marks	
LED service life		50 000 h	
Light guide connection		Photonic standard (Ø 15 mm, galvanic isolation)	
Remote socket	no		yes
ESD socket		for 4 mm banana plug for potential equalisation	
Power cord		plug-in	
Dimensions (L x W x H)		96 x 110 x 175 mm without controls	
Weight		2 500 g	
Type of protection (protection class)		III	
Conformity		CE (EMC Directive 2004/108/EC), RoHS	

WEIGHTED INSERTABLE MODULE (633-30-003)	
Dimensions (L x W x H)	85 x 50 x 16 mm
Weight	500 g

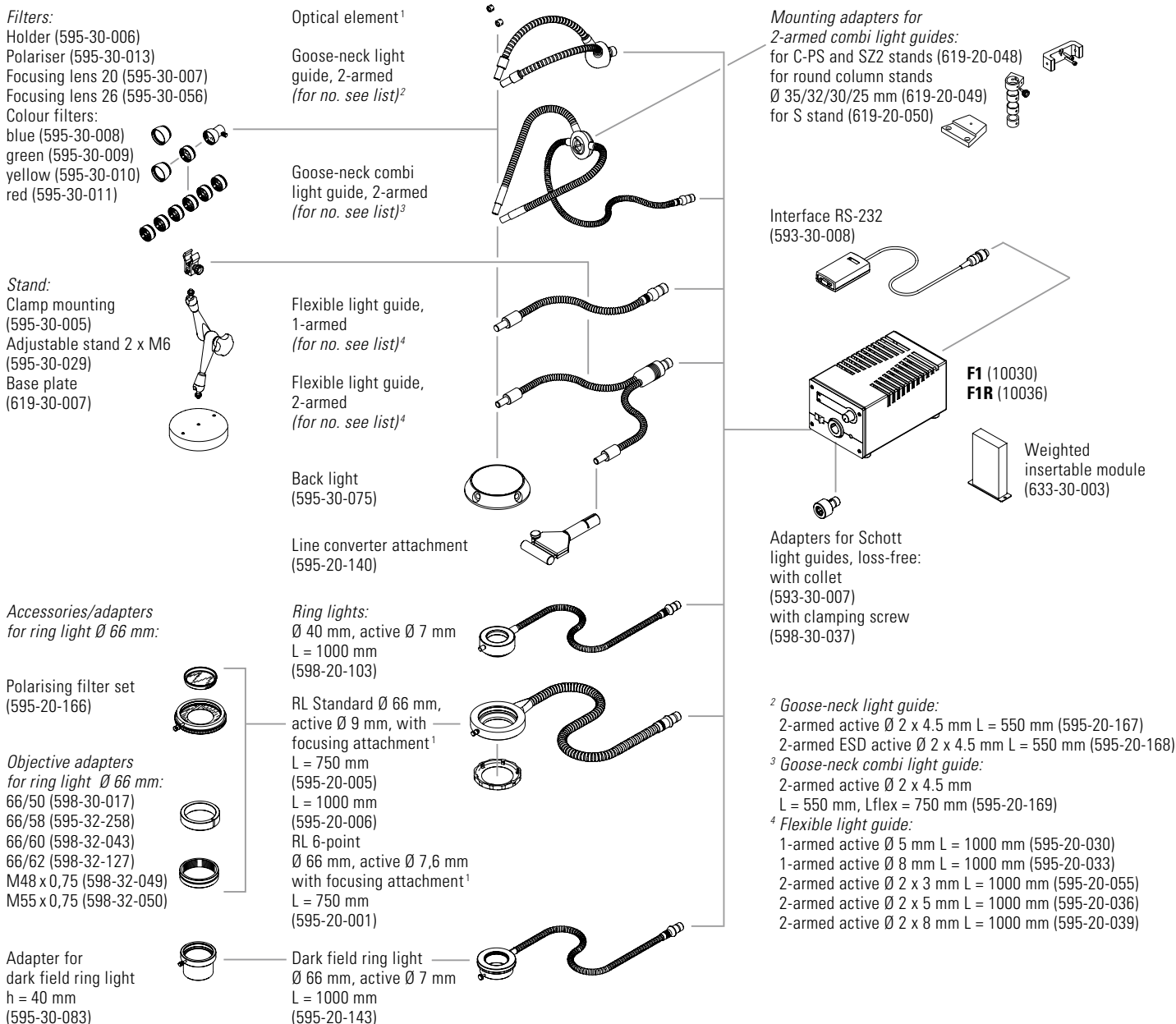
PHOTONIC'S LED F1 LIGHT SOURCE combines LED illumination with the possibilities offered by a fibre-optic light source. By use of the Photonic light guides, with the patented focusing attachments, which provide a further substantial increase in brightness, this light source achieves the performance of standard fibre-optic halogen lighting systems.

The light source is designed for the use with any Photonic fibre-optic light guide, thus facilitating the wide range of illumination options provided by halogen light sources.

IT IS AN INNOVATIVE LIGHTING SYSTEM which, compared to halogen light sources, offers numerous product features at an extremely attractive price:

- ▶ colour temperature: daylight quality
- ▶ very long service life of up to 50 000 h
- ▶ no IR radiation, no UV radiation
- ▶ minimal object heating
- ▶ brightness control with memory function
- ▶ ripple-free and flicker-free
- ▶ no noise, no vibrations
- ▶ free from air turbulence
- ▶ insensitive to shock and vibrations
- ▶ wide-range power supply for worldwide use
- ▶ compact construction
- ▶ ESD protection
- ▶ user safety
- ▶ minimum energy use
- ▶ environmentally friendly.

THE ENTIRE SYSTEM

¹ included in standard scope of delivery

Subject to change without notice. 03/14

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OPTICS

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