# LED LIGHT SOURCE F1

PHOTONIC
OPTICS

POWER
TEMP.
ESD
LED F1

**The new Photonic F1 LED light source** has set a further milestone in the development of modern cold light sources.

This light source combines LED illumination with the possibilities offered by a fibre-optic lamp. By use of the Photonic lightguides in combination with the patented focusing attachments, which provide a substantial increase in brightness, this light source achieves the light intensity of standard fibre-optic halogen lighting systems.

The light source is designed for the use with any Photonic fibre optic lightguide, thus facilitating the huge range of lighting options provided by halogen light sources.

**This innovative lighting system** offers numerous product features at an extremely attractive price in comparison with halogen light sources.

- Colour temperature: daylight quality
- Outstanding service life of up to 50,000 hours
- No IR- and no UV-radiation
- Minimal object heating
- Brightness control with memory function
- Ripple- and flicker-free
- Absolutely quiet and free of vibration
- No air turbulence
- Insensitive to shocks and vibration
- Wide-range power supply for global application
- Compact construction
- ESD protection
- User safety
- Minimal energy consumption
- Environmentally friendly

# LED LIGHT SOURCE WITH FIB

**LED F1**
- Infinitely variable intensity control
- No ventilator (no vibrations, stability)
- Suitable for applications requiring absolute lack of noise and vibration
- ESD socket

**LED F1 R (WITH REMOTE SOCKET)**
Same as F1, additional:
- Connection for manual remote control
- Remote socket for serial interface (RS 232) for computerised control

## ACCESSORIES

**Adapter for Schott light guides**

**Serial interface** (RS 232) for additional control and **remote control** with memory function for electronic brightness control

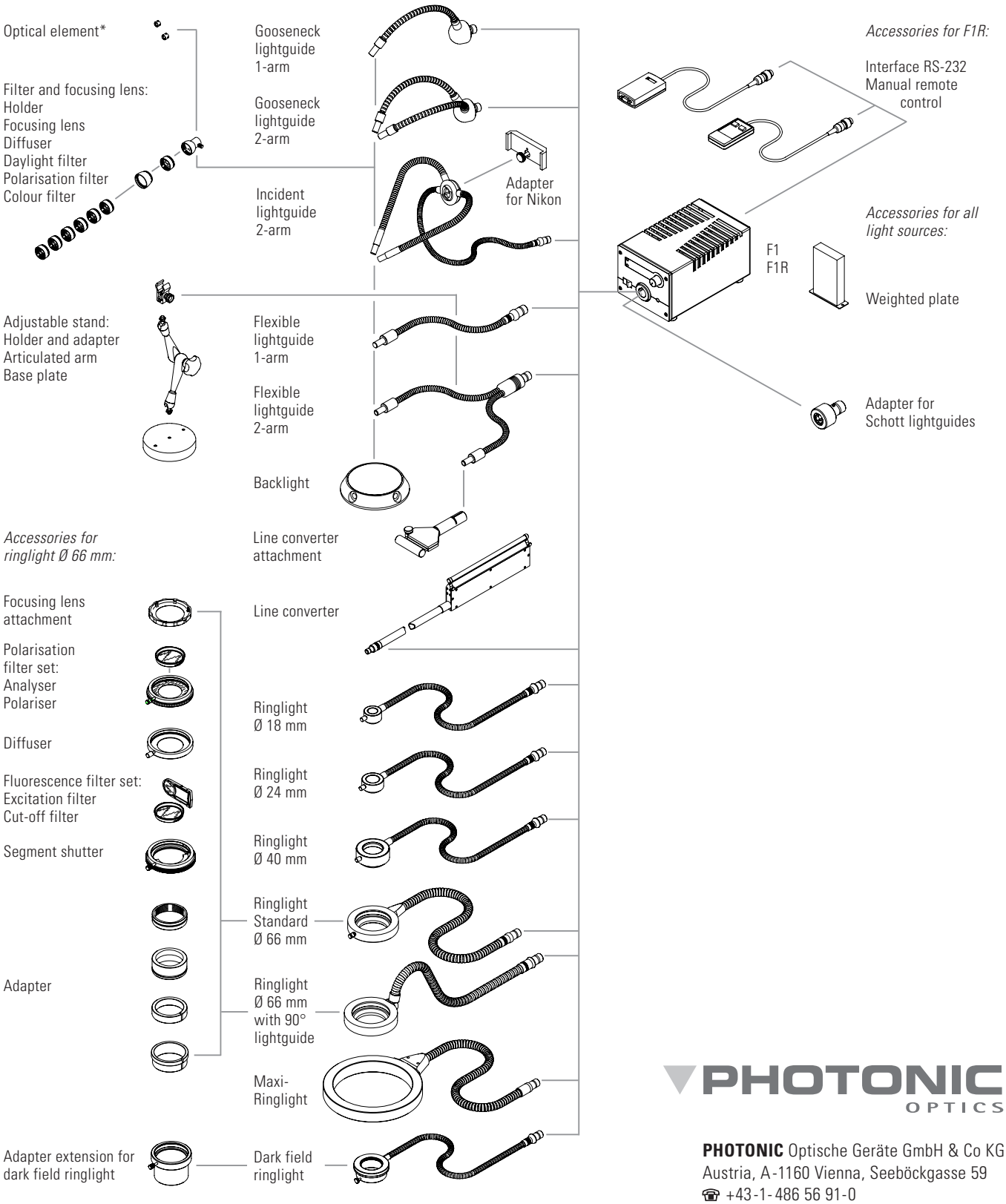
**Weighted insertable module** (without illustration): Attachment mounted onto the bottom of the light source provides outstanding stability when using with gooseneck lightguides.

# RE OPTICAL LIGHT GUIDES

## TECHNICAL DATA

| **COLD LIGHT SOURCE** | **LED F1** | **LED F1 R** |
|---|---|---|
| Item no. | 633-20-00299 | 633-20-00399 |
| Diode | High-power LED | |
| Range control | min. 30:1 | |
| Colour temperature | 5,500 K (daylight) | |
| Power input | 22 W | |
| Power supply | 24 V DC +/– 5%, 1000 mA, hollow pin 5.5 x 2.1 mm | |
| Brightness control | Infinitely variable using rotary potentiometer, with index marks | |
| LED service life | 50,000 h | |
| Lightguide connection | Photonic standard (Ø 15 mm, galvanically separated) | |
| 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 89/336/EEC), RoHS | |
| **POWER SUPPLY** | | |
| Item no. | ENSS-30.001 (EU) | |
| Plug connection (primary) | 3-pin IEC 320 | |
| Socket connection (secondary) | Hollow pin 5.5 x 2.1 mm | |
| Voltage range | 100–240 V | |
| Mains frequency | 50–60 Hz | |
| Power input max. | 30 VA | |
| Protection class | I | |
| Conformity | CE, UL, RoHS | |
| **WEIGHTED INSERTABLE MODULE** | | |
| Item no. | 633-30-003 | |
| Dimensions (L x W x H) | 85 x 50 x 16 mm | |
| Weight | 500 g | |

# VERSATILE SYSTEM




Subject to change without notice. 03/2008

PHOTONIC OPTICS

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