



More Precision

ELTROTEC // Industrial Endoscopes



Halogen High Performance Light Sources ELTROTEC Endlight FOT Halogen

- Universal light source
- Fibre-optic adaption
- FOT/VOLPI light conductor connection

Endlight FOT halogen light sources are the universal solution when it comes to external light sources for endoscopic applications. The high light output and simple operation facilitate optimal inspection results. In the case of adjustable light sources the light intensity is continuously regulated by means of a mechanical iris, without influencing the colour temperature of the light source

FOT Halogen	20	100	150
Power of lamp	20W	100W	150W
Max fibre Ø	5mm	13mm	13mm
Operating life type	~ 100h	1500h	100h
with economy mode	-	> 3000h	~ 210h
Weight	1.4kg	3.3kg	5.9kg
Power supply	230V / 50Hz	110V / 230V / 50Hz	
Light source	6V / 20W	12V / 100W	15V / 150W
Osram HLX type	64250	64637	64634
Colour temperature		3050K	3400K
Dimensions	90x65x150mm	130x190x280mm	180x180x230mm
Accessories		power cable 1.5m/	
Special feature		Iris and economy mode	
Article no.	20910382	20910403	20910384
Replacement lamp article no.	21322075	21310404	21320385



FOT 20



FOT 100



FOT 150

Fibre Optics for Light Sources

Type EL 1/4 1800 MEP/S

- Glass fibres with a high packing fraction
- Total fibre bundle 4mm /1,800mm long
- Metal protective tube with PVC coating

Liquid fibre optic cable type FL 1/4 1800

- Metal protective tube with PVC coating
- Lighting bundle Ø 4mm/higher transmission than glass
- Attention: greater bend radii as glass fibre lighting cables

Article	Article no.
Fibre optic EL 1/4 1800 MEP with Lemo 1 adapter	20710831/S
Fibre optic EL 1/4 1800 MEP/S with universal adapter	20711767
Fibre optic FL 1/4 1800 MEP with Lemo 1 adapter	20710446
Liquid fibre optic cable FL 1/4 1800 MEP/S with universal adapter	20711803
Liquid fibre optic cable FL 1/4 2500 MEP/S with universal adapter	20711899
Lemo 1 to fibre optic	21061030



Fibre optic cable EL

High Performance LED Light Source ELTROTEC Endolight FOT LED

- Low heat development
- Very long service life
- Strong white light LED



FOT LED	12
Optical output*	800lm
Light conductor adapter Ø	15mm
Operating life type	approx. 50.000h
Weight	1.6kg (without power supply)
Power supply	24VDC
Light source	white high power LED
Colour temperature	6500K
Dimensions	100x100x173mm
Operating temperature	-10°C to 40°C
Storage temperature	-25°C to 60°C
Protection class	IP20
Interface	RS232, opt. USB
Accessories	FOT Ø 15mm adapter, wall mount power adapter
Article no.	20912110

*measured by means of a 1800mm fibre optic cable with
an active fibre optic cable interface diameter: 4mm

The light intensity can be regulated in increments using buttons or digitally via the RS232 interface (optional USB) in steps.

Connection:		
Multiport	Pin assignment	Details
Pin 1	analogue input	0-10V, max. 10.5V
Pin 2	analogue GND	0V
Pin 3	trigger input	low: 0 - 0,8V high: 2.0 - 24V
Pin 4	digital GND	0V
Pin 5	n.c.	no connection
Pin 6	Error output	

Xenon Light Source Eltrotec Endolight FOT Xenon

- Compact design
- Intensive, white light
- Easy handling



Endolight FOT Xenon	
Output	24W
Light output*	590lm
Operating life type	~ 500h
Weight	0.8kg
Power supply	100 - 240V, 50 - 60Hz
Light source	Xenon
Colour temperature	5000K
Dimensions	147.3 x 88.9 x 68 mm
Operating temperature	0°C to 60°C
Storage temperature	-20°C to 49°C
Accessories	incl. power supply
Article no.	20911638
Replacement lamp article no.	21320903

*measured by means of a 1800mm fibre optic cable with
an active fibre optic cable interface diameter: 4mm

Application examples with the use of our special fibre optic cables and systems:

- Endoscopy, microscopy
- Forensics, pharmaceuticals
- Image processing
- Measuring technology
- Industrial / technical lighting
- Automation technology

High performance sensors made by Micro-Epsilon



Sensors and systems for displacement and position



Sensors and measurement devices for non-contact temperature measurement



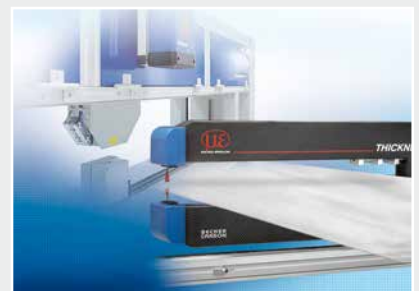
2D/3D profile sensors (laser scanner)



Optical micrometers, fibre optic sensors and fibre optics



Colour recognition sensors, LED analyzers and colour online spectrometer



Measurement and inspection systems



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