

## PAR 36 Lamps



### Lamp 111 PAR36 Halospot, 35W 6V

Halogen reflector lamp 41830 SSP longlife QR111 G53, 3000 h, 4° for spotlight.  
 Very small, round light cone. No stray light due to additional deflector.  
 Luminous intensity: 30,000 cd  
 Light colour 3000 K  
 Ø 111mm  
 Z-L-8012

## QRB-111 Lamps



### Lamp QR111 Halospot 12V 75W 45° G53

Halogen aluminium reflector lamp G53 AR111 longlife, 111mm.  
 Lamp Ø 111mm,  
 Operating voltage 12 Volt  
 Average life 2000 h  
 Luminous intensity: 2000 cd  
 Z-L-8021-45

### Lamp QR111 Halospot 12V 75W 8° + Anti-Blind

Halogen reflector lamp G53 AR111 longlife, 111mm with glare shield.  
 Very narrowly focused light beam  
 Z-L-8021-8

## ES111 Lamps



### Lamp ES111 50W 230V GU10 24°

Halogen aluminium reflector lamp GU 10, D 111mm.  
 Discontinued item - only a few left in stock.  
 Lamp for mains voltage 230V.  
 Narrowly focused light beam  
 Average life 1500 h  
 Ø 111mm  
 Base GU 10  
 Z-L-8027

## PAR46 / PAR56 Lamps



### Reflector Lamp PAR56 300W spot NSP

Pressed-glass reflector lamp 230V, GX 16d, narrow spot NSP, 13° x 8°  
 Average life 2000h  
 Light distribution: NSP, 8° x 13° narrow beam  
 Light colour: 2800K  
 Voltage: 240V  
 Diameter: 178 - 179 mm  
 Z-L-8040S

## PAR64 Lamps

### Reflector Lamp PAR 64 500W CP86 spot

Pressed glass reflector lamp GX 16d, 300h, VNSP  
 Z-L-8042S

### Reflector Lamp PAR 64 1000W CP60 V-Nar-Spot

Pressed glass reflector lamp GX16d, VNSP  
 Z-L-8046S

**LED PAR Pool Lamps**



**LED Swimming Pool Lamp  
PAR56 24W 12V 3000K**



Energy saving LED reflector lamp 24 Watt warm white light for swimming pool. Energy-saving replacement for the 300W lamps.  
Z-L-8055-3

Remaining stock: 1 piece

For permanent underwater operation  
Resistant to chlorine.  
Lumen: 1100 lm  
Colour temperature: 3000K  
Light distribution: 200  
LED chip: SMD 3014  
Connected voltage 12V AC or DC  
A transformer is required for operation.

Dimmable: No  
Power 18W, energy saving,  
Very long life: > 25000h  
These lamps may only be operated under water so that they do not heat up too much.

Protection class: IP68 resistant to pressurised water  
Housing material: plastic  
With connecting cable 1m  
Dimensions: Ø 180mm x h 105mm

Weight: 0,5 kg



**LED Swimming Pool Lamp  
PAR56 18W 12V**



Energy-saving LED reflector lamp 18 Watt for swimming pool. Energy-saving replacement for the 300W lamps.  
Z-L-8056

For permanent underwater operation  
Resistant to chlorine.  
Lumen: 1100 lm  
Colour temperature: 6000K or 3000K  
Light distribution: 120  
LED chip: SMD 3014  
Connected voltage 12V AC or DC  
A transformer is required for operation.

Dimmable: No  
Power 18W, energy saving,  
Very long life: > 25000h  
These lamps may only be operated under water so that they do not heat up too much.

Protection class: IP68 pressure water resistant  
Housing material: pressed glass  
Dimensions: Ø 178mm x h 114mm  
Weight: 0,95 kg

**UV Blacklight and Solarium Tubes**



**Blacklight-Blue Tube T8 60cm  
18W**




Blacklight tube T8, 26mm Blacklight.  
Low remaining stock - item can no longer be reordered.  
Blacklight tube T8, 26mm Blacklight.




Ø 26mm  
Length 590mm  
Fits in any standard tube holder for T8.




If you buy 3 tubes we will deliver free of shipping costs.  
The shop will charge shipping first, we will then send you a revised invoice right away without shipping costs.  
Z-L-8105




**UV Black Light Tube 120cm 36W  
T8**

Blacklight-Blue T8 blacklight tube, 26mm. As a disco effect.  
Z-L-8106


MR16 Cool Beam Lamps GU5.3		
	<b>Mirror Lamp MR16 16W (20W) IRC</b>	<p>Energy-saving halogen dichroic reflector lamp 36°, 12V, 50mm, with the luminous intensity of a 20W halogen lamp GU5.3 / GX5.3 Z-L-8151</p> <p>Very high brightness: 700 Lm Light distribution 36° BAB Long service life 6000h Low heat radiation to the front due to the cold mirror. The infrared filter coating of the glass retains the heat radiation in the glass bulb. As a result, less energy is required to maintain the filament temperature. 30% lower power consumption with exactly the same light output. UV Protected / with UV Stop Weight: kg</p>
	<b>Mirror Lamp MR16 20W (35W) Mega IRC</b>	<p>Energy-saving dichroic reflector lamp 12V, 50mm, with the luminous intensity of a 35W halogen lamp, GU5.3 / GX5.3 Remaining stock 1 piece 36 degrees - item can no longer be reordered. Z-L-8152</p>
	<b>Mirror Lamp MR16 50W (75W) Mega IRC</b>	<p>Energy-saving halogen dichroic reflector lamp 50mm, with the luminous intensity of a 75W halogen lamp, GU5.3 / GX5.3 Z-L-8154</p>

MR16 Alu Reflector Lamps		
	<b>Aluminium Reflector Lamp MR16 20W</b>	<p>12V halogen lamp with 36° aluminium reflector and safety glass. GU 5.3 Z-L-8160</p>
	<b>Aluminium Reflector Lamp MR16 35W</b>	<p>12V halogen lamp with aluminium reflector 24°, 36°, 60° and protective lens. GU 5.3 Z-L-8162</p>
	<b>Aluminium Reflector Lamp MR16 50W</b>	<p>12V halogen lamp with aluminium reflector 24°, 36°, 60° and protective lens. GU 5.3 Z-L-8164</p>


MR16 Cool Beam Lamps GU5.3		
	<b>Halogen Lamp MR16 20W Mega Master</b>	<p>Particularly bright 50mm cold light mirror with glass reflector, reduced heat emission for sensitive goods. Comparable with 35W halogen light. With protective glass GU5.3 / GX5.3. Very high brightness Available in: 12° 5000cd, 38° 780cd Lifetime 4000h Low heat emission to the front due to the cold mirror. Halogen lamp with UV protection Low heat radiation to the front for heat-sensitive objects. Operating voltage 12V Z-L-8172</p>
	<b>Halogen Lamp MR16 50mm 50W longlife 36°</b>	<p>50mm dichroic reflector =RJLS, 12V flood, branded w. safety glass, GU5.3 / GX5.3 Z-L-8174F</p>
	<b>Halogen Lamp MR16 50mm 50W longlife 24°</b>	<p>12V medium-flood reflector, 4000h with cover glass, GX5.3 / GU5.3 german brand. Z-L-8174M</p>
	<b>Halogen Lamp MR16 50mm 50W Mega Master</b>	<p>Particularly bright 50mm dichroic reflector lamp comparable with 75W halogen light. With protective lens GU5.3 / GX5.3. Very high brightness: 12° 12500 cd, 38° 2200 cd, Service life 4000h Low heat radiation to the front due to the cold mirror. Z-L-8174P</p>



	Halogen Lamp MR16 50mm 50W longlife 12°	50mm dichroic reflector lamp =RJLS, 12V spot, 4000 h, branded w. safety glass, GU5.3 / GX5.3 Z-L-8174S
	Halogen Lamp MR16 50mm 50W longlife 60°	50mm dichroic mirror lamp with reflector wideflood. Wide illumination for pictures, posters, banners from a short distance. Branded w. protective glass, GU5.3 / GX5.3 FNV-P Z-L-8174W
	<b>Halogen Lamp MR16 50mm 35W longlife</b>	50mm dichroic reflector lamp 12V, 4000h, branded w. safety glass, GU5.3 Very high brightness Available in Flood 36° 1200cd, Medium 24° 2200cd, Spot 12° 7400cd. Lifetime 4000h Low heat emission to the front due to the cold mirror. For illuminating heat-sensitive objects. Halogen lamp with UV protection Operating voltage 12V Z-L-8175
	<b>Halogen Lamp MR16 50mm 50W Daylight 40°</b>	50mm cold light reflector lamp =RJLS, 12V Flood 40°, 4000 K daylight colour for trade fairs, exhibitions, jewellers, showcases, shop windows and more. GU5.3 / GX5.3 Low heat emission to the front due to the cold mirror. Especially for exhibitions, textiles, fashion, colours, graphics and everywhere where daylight-like light is desired. Light intensity: 1200 cd Lamp with protective screen and UV protection. Z-L-8177F
	Halogen Lamp MR16 50W Red Color longlife	Cold-light reflector lamp 12V spot 12°, coloured glass, halogen lamp 4000h, GU5.3 / GX5.3 Remaining stock 7 pieces - item can no longer be reordered. Z-L-8179-R
	Halogen Lamp MR16 50W Color longlife, blue	Cold-light reflector lamp 12V spot 12°, coloured glass, halogen lamp 4000h, GU5.3 / GX5.3 Remaining stock 1 piece - item can no longer be reordered. Z-L-8179B
	Halogen Lamp MR16 50W Color longlife, green	Halogen cold mirror lamp 12V spot 12°, coloured glass, halogen lamp 4000h, GU5.3 / GX5.3 Remaining stock 5 pieces - item can no longer be reordered. Z-L-8179G
	Halogen Lamp MR16 50W Color longlife, orange	50mm dichroic reflector lamp 12V, coloured glass, halogen lamp 4000h, GU5.3 / GX5.3 Z-L-8179O
	Cool Beam Lamp MR16 20W Color Yellow	Cold-light reflector lamp 12V 50mm spot 13°, coloured glass, GU5.3 Remaining stock 6 pieces - item can no longer be reordered. Z-L-8180-ge



## MR11 Lamps

	Halogen Lamp MR11 35mm 35W longlife 36°	Cold light reflector lamp 12V Flood, cold light mirror lamp 35mm, 4000h, branded with protective glass, GU4 Z-L-8194
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## Lamps G12 / G8,5 / PGJ5

	HID Lamp MH-T 150W G12 coloured	Metal halide discharge lamp magenta, green, blue, orange, single-ended. Z-L-8219
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Discharge Lamps RX7s / Fc2		
	<b>Lamp HIT DE 70W Rx7s cool white</b>	HIT-DE =MHD-TD =HRI-TS =HSI-TD 952 =DDL 5200K, 114mm, halogen metal halide lamp double ended. Light colour 5200 K Luminous flux: 5500 lm Average life 8,000 h with UV protection. Operation only via suitable ballast. Length 118mm, Contact spacing 114mm Z-L-8220-D
	Lamp HIT DE 70W Rx7s pure white	HIT-DE =MHN-TD =HRI-TS =HSI-TD 842 =NDL neutral white, 114mm, double-ended metal halide lamp. Z-L-8220-N
	<b>Lamp HIT DE 150W Rx7s cool white</b>	HIT-DE =MHD-TD =HRI-TS =HSI-TD Metal halide discharge lamp, DDL 5200K Light colour 5200 K Luminous flux: 11,000 lm Average life 8,000 h with UV protection. Operation only via suitable ballast. Length 135mm, Contact spacing 132mm Z-L-8221-D
	Lamp HIT DE 150W Rx7s 10000 Kelvin Aqualine	Metal halide lamp Nepturion HIT-DE = HRI-TS = HSI-TD Halogen discharge lamp 10000K Burner for aquaristics. Z-L-8221-K
	Lamp HIT DE 150W Rx7s pure white	HIT-DE =MHN-TD =HRI-TS =HSI-TD Halogen metal halide lamp, double-ended. 842 =NDL 4000K neutral white Z-L-8221-N

Lamps G12 / G8,5 / PGJ5		
	HID Lamp 70W G12 warm white 3000K	HIT =MHW-T =HRI-T =HSI-T 730 WDL, single-ended metal halide lamp. 3000K warm white Z-L-8224-W
	<b>Lamp HIT 150W G12 photo studio 6000K</b>	Lamp HIT = MHD-T HRI-T = HSI-T 860 = DDL Halogen metal vapour lamp Photo-Studio, daylight white Z-L-8225-B  For stage, photo, film, TV, studio Luminous flux: 11,000 lm with UV protection. Average life 6000 h Single-ended Operation only with suitable ballast. Weight: 0,04 kg
	<b>Lamp HIT 150W G12, cool white 5200K</b>	HIT D =MHD-T =HRI-T =HSI-T 852 =DDL, metal halide lamp daylight white Luminous flux: 11,000 lm with UV protection. Average life 6000 h Single-ended Operation only with suitable ballast. Z-L-8225-D
	Lamp HIT 150W G12, pure white 4000K	HIT =MHN-T =HRI-T =HSI-T 840 =NDL, metal halide lamp 4000K neutral white Z-L-8225-N




## Discharge Lamps RX7s / Fc2

	<b>Lamp HIT DE 70W Rx7s colour blue</b>	HIT-DE =MHN-TD =HRI-TS =HSI-TD Coloured metal halide lamp. The manufacturer has discontinued production: Remaining stock 3 pieces. Clear bulb, only the gas mixture glows in colour, ensuring highest efficiency without fading. The colour is light blue / pastel. Luminous flux 1,700lm The brightness corresponds to about 300 Watt halogen light. Colour saturation 60%. The manufacturer has stopped production: Remaining stock 3 pieces. Z-L-8228-B
	Lamp HIT DE 70W Rx7s colour orange	HIT-DE =MHN-TD =HRI-TS =HSI-TD Coloured metal halide lamp. The manufacturer has discontinued production: Remaining stock 1 piece. Z-L-8228-O
	Lamp HIT DE 70W Rx7s colour magenta-red	HIT-DE =MHN-TD =HSI-TD =HQI-TS Coloured metal halide lamp. The manufacturer has discontinued production: Remaining stock 2 pieces. Z-L-8228-R
	<b>Lamp HIT DE 150W Rx7s colour blue</b>	MH MD HID =MHN-TD =HRI-TS =HSI-TD, coloured metal halide discharge lamp. Z-L-8229-B

## Discharge Lamps with reflector

	<b>Lamp CDM-R 35W PAR30</b>	=RCI-PAR30, E27, WDL 3000K. Halogen ceramic lamp with excellent colour rendering quality. Z-L-8231
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## Lamps G12 / G8,5 / PGJ5

	<b>Lamp CDM-T 150 G12 Ceramic 942 pure white</b>	=RCI-PAR30, E27, WDL 3000K. Halogen ceramic lamp with excellent colour rendering quality. Light colour 942 neutral white = 4200 K. Average life 12,000 h Base G12 Luminous flux: 13000 Lm Operation only via suitable ballast. Z-L-8240-N
	Lamp CDM-T 150 G12 Ceramic 830 warm white	HIT-CRI =HCI-T =RCI-T =CMI-T 150W, base one-sided, 3200K warm white. Metal halide lamp, excellent colour rendering quality. Z-L-8240-W
	<b>Lamp CDM-T 35W G12 pure white</b>	HIT-CRI =HCI-T =RCI-T =CMI-T 942 = 840 35 W, single-ended metal halide lamp. ND.L neutral white. Light colour 4000K neutral white Luminous flux: 3100 lm Average life 9,000 h, G12 base. With UV protection. Z-L-8242-N
	Lamp CDM-T 35 W G12 3000K warm white	HIT-CRI =HCI-T =RCI-T =CMI-T 35W, 830 =WDL, single-ended halogen ceramic lamp. 3000K warm white Z-L-8242-W
	<b>Lamp HCI-TC 20 W, G8,5</b>	RCC-TC 20W, CDM-TC 20W Halogen-ceramic light source with excellent colour rendering quality. Small pin base G8.5. Light colour WDL 3000K (Only available in warm tone.) Luminous flux: 1700 Lm Z-L-8243
	Lamp CDM-TC 35 W G8,5	HCI-TC, RCI-TC 35W . Halogen-ceramic lamp with excellent colour rendering quality. Z-L-8244

Lamp CDM-TC 70 W G8,5

HCI-TC, RCI-TC 70W . Halogen ceramic bulb WDL with excellent colour rendering quality.  
Z-L-8245

## Discharge Lamps RX7s / Fc2



**Lamp CDM-TD /HCI-TS Ceramic 150W Rx7s pure white**

HIT-DE-CRI =RCI-TS =CMI-TD 150 W double-sided. Neutral white 942, 840. Halogen ceramic lamp, excellent colour rendering.  
Length 132mm  
with UV protection.  
Luminous flux: 12500 Lm  
Light colour 942 neutral white = 4200 K  
Average life 15,000 h  
Operation only via suitable ballast.  
Z-L-8250-N

Lamp CDM-TD /HCI-TS Ceramic 150W Rx7s warm-white

HIT-DE-CRI =RCI-TS =CMI-TD 150 W. Warm tone 830. Halogen ceramic lamp, excellent colour rendering.  
Z-L-8250-W

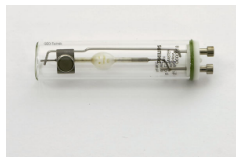
Lamp CDM-TD /HCI-TS Ceramic 70W Rx7s warm-white

HIT-DE-CRI =RCI-TS =CMI-TD 70 W. Warm white. Halogen ceramic discharge lamp.  
Z-L-8252-W

## Lamps G12 / G8,5 / PGJ5



**HID Lamp CDM-Tm 20W/830 Mini GU6.5 MH**



Philips Master Colour 830 ceramic lamp with base MT-20/GU6.5  
Remaining stock - discontinued item  
Z-L-8255

The MINI MASTER COLOUR CDM-Tm is the smallest metal halide lamp from Philips.  
Light colour 830 = warm tone 3000K  
Excellent colour rendering, colour rendering index Ra = 86  
Energy saving - low power consumption and long average life of 9,000 hrs. (when operated with the recommended electronic ballast).  
Stable colour rendering over entire lamp life.

Any burning position  
Length: 55,5mm  
Diameter: 12,2mm

Low heat emission for pleasant ambient temperature.  
The Twist&Lock base system used with the PGJ5 base type ensures precise positioning of the burner in the luminaire as well as easy replacement and a secure hold of the lamp.  
Note: Operation of the lamp is only permitted in closed luminaires.  
Weight: 0,025 kg

## Discharge Lamps RX7s / Fc2





**HID Lamp HQI-TS 250W Fc2 Radium**




HIT-DE, MH MD metal halide discharge lamp. energy economizing. 5100K.  
Luminous flux: 20,000 lm  
Service life 10000 h  
Light colour 3500K, 4200K or 5200K,  
With UV protection and an Ra >90.  
For film, photo, presentation or colour sampling.  
Rated current 3.0 A  
Base Fc2,  
Length 162 mm  
Z-L-8260-D

HID Lamp HQI-TS 250W Fc2 standard



HIT-DE Halogen metal vapour discharge lamp, double-ended.  
Z-L-8260-I


	<b>HID Lamp HQI-TS 1000W 6300K</b>	Lamp HIT-DE = HRI-TS 1000 W metal halide lamp, 2-sided capped K12S 187mm, 6300K Length 187mm. With cable connection. Burning position: Horizontal P15 Luminous flux: 90.000 lm Average life 6.000 h Colour temperature 6300K Operating voltage 230V 1000 Watt Operating current 9.6A Without envelope, only to be operated in protected luminaires. Horizontal burning position P15 Z-L-8265-D
	<b>HID Lamp HQI-TS 1000W 4400K</b>	Lamp HIT-DE = HRI-TS 1000 W metal halide lamp, 2-sided capped K12S 187mm, 4400K Z-L-8265-N
	<b>HID Lamp HQI-TS 2000W K12s-36</b>	HIT-DE = HSI-TD = HRI-TS 2000 W D/S High-pressure discharge lamp, double-ended K12s-36 With cable connection. Luminous flux: 200,000 lm Average life: 4,000 h Colour temperature 5800K Colour rendering Ra: > 90 Operating voltage: 400V Lamp current: 11.3A Without envelope, to be used only in protected luminaires. Horizontal burning position P15 Length: 187mm Diameter: 36mm Z-L-8267


## Sodium High Pressure Lamps





	<b>Sodium Lamp HPS 100W, E40 bulb elliptical</b>	Natrlox SHP-E 100W Ellipsoid. Low-cost quality, German manufacture. High efficiency. Z-L-8311-I
	<b>Sodium Lamp HPS 150W, E40 bulb elliptical</b>	RNP-E 150W sodium vapour lamp ellipsoid shape. Inexpensive German quality. Z-L-8313-I
	<b>Sodium Lamp HPS 50W, E27 tubular, Brand</b>	RNP-T/LR 50 W tube type. Yellow light colour for outdoor lighting. Very high efficiency. Z-L-8320-D
		Luminous flux 4400 Lm Average life 16,000 h Yellow light colour for outdoor lighting. Lamp current 0.8 A Length 156mm, Ø 37mm Weight: 0,24 kg
	<b>Sodium Lamp HPS 150W, E40 tubular, brand 4Y</b>	RNP-T /LR 150 W tube form. Osram, Philips, Radium. Super Longlife. Z-L-8322-D
	<b>Sodium Lamp HPS 150W, E40 tubular</b>	RNP-T 150 W tube shape. Inexpensive quality, German production. Z-L-8322-I
	<b>Sodium Lamp HPS 100W, E40 tubular NAV-T</b>	RNP-T /LR 100 W tube form. Osram, Philips, Radium. Super Longlife. Z-L-8323
	<b>Sodium Lamp HPS 250W, E40 tubular, 4Y</b>	RNP-T 250 W tube form. Brand name. 30,000 Lm, super longlife. Z-L-8324-D
	<b>Sodium Lamp HPS 250W, E40 tubular</b>	HPSV-T tube shape. Low-cost quality, yellow light colour with highest energy efficiency. Z-L-8324-I



Sodium Lamp HPS 400W, E40 tubular, 4Y	RNP-T 400 W Röhrenform. Radium, Osram, Philips, etc. 48.000 Lm, super longlife. Z-L-8325-D
Sodium Lamp HPS 400W, E40 tubular	RNP-T 400W tube form. Inexpensive quality, German manufacture. High efficiency. Z-L-8325-I
Sodium Lamp HPS 1000W, E40 tubular	RNP-T 1000W High pressure tube type for outdoor lighting. Highest energy efficiency. Z-L-8327
 <p><b>SHP-TS Sodium Lamp HPS E40 Twinarc 2 Burners 6Y</b></p> 	<p>Lamp with double burner NAC, SON 50W, 70W, 100W, 150W, 250W, 400W double life 55000h.</p> <p>Versions of this item in stock at different prices. Please indicate when ordering - we will then adjust the version later:</p> <p>2 pieces 70W E27</p> <p>7 pieces 150W E40</p> <p>4 pieces 250W E40 Z-L-8328</p> <p>Ideal for extended maintenance intervals, high operational reliability for airport, industrial and street lighting. The average life is 18 years with a daily burning time of 8 hours. There are 2 identical burners in the glass bulb, only one of which lights up at any one time. If this burner fails, the other one ignites. This doubles the service life and operational safety. Another advantage is the immediate restart after a power failure.</p> <p>Stock versions of this item at different prices. Please indicate when ordering - we will then adjust the version later:</p> <p>70W E27</p> <p>150W E40</p> <p>250W E40</p> <p>Reorders only in packaging units of 10 pieces. Weight: kg</p>

Lamps BY22d	
	<p>Sodium Lamp SOX 35W LPS BY22d</p> <p>=SOX Pro 35W = Philips 179739 Plus, low-pressure sodium lamp 36W. Yellow monochromatic light colour. Highest light output ratio. Sold out - no longer in the range ! Z-L-8330</p>

Metal Halide Lamps	
	<p>Metal Halide Lamp HID 150W E27 elliptical bulb 3000K</p> <p>HIE = HRI-E = HPI-E = HSI-MP 150 Watt discharge lamp, bulbous shape, warm tone. Z-L-8343-W</p>
	<p>Metal Halide Lamp HID 250W E40 elliptical bulb</p> <p>HIE = HRI-E = HPI-E = HSI 250 Watt Britelux metal halide lamp with high luminous efficacy, 3700K Z-L-8344-N</p>
	<p>Metal Halide Lamp HID 400W E40 elliptical, Brand</p> <p>HRI-E = HSIE 400 Watt metal halide lamp 4.0A 3700K, high luminous efficacy, German branded goods. Z-L-8345-N</p>

	<p><b>Metal Halide Lamp HID 250W E40 tubular, coloured</b></p>	<p>HRI-T = HQI-TE = HSI-T 250 Watt metal vapour discharge lamp red, orange, green, blue coloured. Tube shape.                  Clear bulb, only the gas mixture glows bright green, ensuring highest efficiency without fading.                  The brightness corresponds to about 1100 watts of halogen light.                  Available in magenta-red, blue, green or orange. Operation only with suitable ballast.                  Longlife type with E40 socket.                  Operating current 3.0 A                  Z-L-8354</p>
	<p><b>Metal Halide Lamp MH 250W E40 Tubular Plus</b></p>	<p>HRI-T 250 W metal halide discharge lamp. Tube shape, daylight 5200K, best light quality Ra90                  Clear glass                  Luminous flux 20,000 lm                  Light colour 5200 K                  Service life approx. 8,000 h                  Lamp current: 3.0 A                  Ignition voltage: 4.0 kV                  German brand, e.g. Radium                  Operation only via suitable ballast                  Any burning position.                  Length 225mm, D 46mm                  Z-L-8374-D</p>
<p>Metal Halide Lamp MH 250W E40 tubular</p>	<p>HRI-T / HSI-TSX 250 Watt metal halide discharge lamp. Tube shape, neutral white                  Z-L-8374-N</p>	
<p>Metal Halide Lamp HID 400W E40 Tubular normal</p>	<p>Metal vapour discharge lamp 400 Watt. 4000K.                  Z-L-8375-I</p>	
	<p><b>Metal Halide Lamp HID 1000W E40 Tubular 8.2amp</b></p>	<p>HRI-T 1000 W DW = HPI-T 1000 Watt metal vapour discharge lamp. Tube shape.                  Clear bulb                  Luminous flux 81,000 lm                  Light colour 4000 K neutral white                  Operating voltage 220V - 230V                  Lamp current 8.2A                  Lifetime approx. 6,000 h                  German manufacture.                  Length 340mm, Ø 76mm.                  Operation only via suitable ballast.                  Z-L-8376-8</p>
	<p><b>Metal Halide Lamp HID 1000W E40 Tubular 9.5amp</b></p>	<p>HRI-T 1000 W = HSI-T 1000 Watt metal vapour discharge lamp. Tube shape.                  Z-L-8376-9</p>
<p>Metal Halide Lamp HID 2000W E40 tubular 440V</p>	<p>HRI-T, HPI-T, HSI-T 2000 W/N/I/400 Metal halide discharge lamp.                  Z-L-8378-4</p>	

## Sodium High Pressure Lamps



### Sodium Lamp HPS 70W E27 replacement for 80W Mercury

Easy replacement of the conventional mercury vapour lamp HPL 80W .  
 Energy saving. Built-in glow igniter.  
 Pleasant yellowish light.  
 Low remaining stock - discontinued item  
 Z-L-8401

Energy-saving replacement of HQL, HME, HRL, HSL, HPM-Em, HPL 80W mercury vapour lamps.  
 12.5% energy saving,  
 Yellow light colour for outdoor lighting.  
 High efficiency, therefore brighter than the old mercury lamps.  
 Luminous flux: 5600 lm  
 Long life: approx. 20,000 h  
 Power consumption: 110 Watt  
 Voltage: 230V  
 Construction: Ellipsoid, matt  
 Base E27  
 Length 156mm  
 Ø 70mm

Unscrew the old mercury lamp and insert this new lamp - ready !  
 No igniter is required, there is a glow igniter directly in the lamp.  
 The old ballast of the mercury lamp can still be used.  
 Weight: 0,1 kg

## Halogen Tube Lamp



### Halogen Lamp 100W R7s, 78mm Brand

German brand linear lamp  
 Z-L-9001

### Halogen Lamp 150W R7s, 78mm Import

Halogen lamp 230V  
 free shipping from 50 pieces  
 Z-L-9002-I

### 50 pcs. Halogen Lamp 150W R7s, 78mm Import

Box with 50 mains voltage halogen lamps 230V  
 Z-L-9002-I50

### Halogen Lamp 120W (150W) R7s, 118mm Brand

Energy-saving Xenon ECO halogen lamp 1500 h, brand name.  
 Only 120W instead of 150W with the same brightness.  
 Z-L-9003-M

### Halogen Lamp 230W R7s, 118mm

Energy-saving Xenon ECO halogen lamp, only 230W instead of 300W with the same brightness.  
 Brand name  
 Low remaining stock  
 Z-L-9004-M

### Halogen Lamp 200W R7s, 118mm Brand

Halogen lamp 1500 h, brand name  
 Z-L-9005-M

### Halogen Lamp 100W R7s, 118mm Brand

Mains-voltage halogen lamp 1500 h, brand name  
 Z-L-9006

### Halogen Lamp 400W (500W) R7s, 118mm ECO Brand


Energy-saving xenon ECO halogen lamp 2000h, dimmable, brand name  
 Z-L-9008




### Halogen Lamp 1000W R7s, 189mm Brand

Mains-voltage halogen lamp 1000 watt RJH-TS, dimmable, brand name 2000h  
 Z-L-9010  
 Luminous flux 22,000 lm  
 Operating voltage 230V  
 Contact spacing 185.7mm  
 Diameter 11mm  
 Weight: 0,02 kg




	<b>Halogen Lamp 750W R7s, 189mm</b>	Halogen lamp 2000h RJH-TS, 230V dimmable, brand name Stabbrenner Luminous flux 16,500 lm Operating voltage 230V Contact spacing 185.7mm Z-L-9014
	<b>Halogen Lamp 1500W R7s, 254mm</b>	Halogen lamp 1500 Watt, dimmable, German make, 2000 h, 3000K Z-L-9019


## Lamps for stage / studio, other sockets

	<b>Lamp FEX P2/27 64781 2000W 240V</b>	Halogen rod 3200K 141mm dimmable, for studio / film RX7s 2-sided socket. Z-L-9035  Luminous flux 50000 Lm Average life 300 h Lamp position P 15 Lamp holder: Rx7s Operating voltage 240 V Length 141.5 mm Weight: 0,02 kg
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## Halogen Tube Lamp


	<b>IR Heater Halogen Lamp 500W 222mm with wire ends</b>	Mains-voltage halogen lamp dimmable Z-L-9060
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## Lamps for stage lighting G6.35 or GX6.35


	<b>Halogen Lamp 300W G6,35 120V Import</b>	Lamp G 6,35 = GY 6,35 64514 Connection voltage 120V Z-L-9123-I
	<b>Halogen Lamp 300W GX6,35 230V</b>	Lamp = 64516 =CP97 Z-L-9124-2

## Lamps for stage lighting GY9.5


	<b>Halogen Lamp 300W GY9,5 M38</b>	Quartz 64662, 2000 h, 2900K Luminous flux: 5000 lm Voltage: 220 - 230V Z-L-9125
	<b>Halogen Lamp 500W GY9,5 A1 /7389</b>	Lamp GE 39643 = Philips 7389 = A1 /244 For projection, TV and film short construction luminous flux 14,000 lm Light colour 3200 K Average life 75h Centre of gravity 36,5mm Supply voltage 230V Z-L-9128
	<b>Halogen Lamp 500W GY9,5 CP82 GE</b>	Lamp 64674=6873P, 180 h, 3200K, low-priced version from G.E. Z-L-9131-G
	<b>Halogen Lamp 500W GY9,5 M40</b>	Lamp =64672 =6877P, 2000 h, GE or similar Z-L-9132

	<b>Halogen Lamp 650W GY9,5 T27 3000K</b>	Lamp = T26 = 64718 = 6823P, 400h, German brand, not GE ! Luminous flux 14,500 lm Light colour 3000 K Average life 400 h Operating voltage 230 V Light spot height 90mm Z-L-9133-30
	<b>Halogen Lamp 650W GY9,5 CP89 3200K</b>	Lamp = 6638P = 64717 =FRL Radium, 180h Z-L-9133-32


## Lamps for stage lighting GX9.5

	<b>Halogen Lamp 650W GX9,5 T12</b>	Lamp = 6998P = T21 = 64719 = 6998P, 3000K, brand manufacturer Z-L-9134-30
	<b>Halogen Lamp GX9.5 650W CP67</b>	Halogen lamp CP23= CP47= 6993P = 64720, 3200K, brand manufacturer Z-L-9134-32
	<b>Halogen Lamp 1000W GX9,5 CP70</b>	Lamp = 64745 = 6995P = RHS 1000W, German brand manufacturer, 3200°K Luminous flux 26,000 lm Light focus 55mm Average life 240h Operating voltage 230 V Z-L-9135
	<b>Halogen Lamp 1000W GX9,5 T19</b>	Lamp = T11 = 64744 (64752), brand manufacturer, 3000°K, 800h Z-L-9136




## Lamps for stage lighting GY16, G22 or G38

	<b>Halogen Lamp 1000W G22 CP71</b>	Lamp FKJ =64747 =6995Z =CP40 Brand manufacturer, 3200°K similar to 6996Z, but higher colour temperature. Luminous flux 25,000 lm Average life 240h Light spot height 63.5mm Z-L-9140
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## Lamps for stage lighting G6.35 or GX6.35

	<b>Halogen Lamp 1000W 64575 GX6.35</b>	Lamp P1/15 = EGY 15h 3400K and G6.35 Light colour 3400K Operating voltage 230V Average life 15h Z-L-9141-1
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## Lamps for stage lighting GY16, G22 or G38

	<b>Halogen Lamp 2000W GY16 CP72 (CP43)</b>	Lamp =CP43=CP79, bulbous glass bulb, 3200K, Osram / Radium / Philips Luminous flux 52,000 lm Average life 400h Z-L-9150
	<b>Halogen Lamp 2000W G22 CP75</b>	Lamp = CP55 = 64787, 3200K, non-trig Average life 400h Z-L-9151
	<b>Halogen Lamp 2000W G22 CP92</b>	Lamp = 64777, 3200K, high Luminous flux 52000 lm Average life 400h Z-L-9153

**Discharge Lamps, Stage**

	<b>Lamp MSI 575W, Double Side</b>	Discharge lamp =HMI 575 GS = RSI 575W SFC10 Luminous flux 43000 Lm Light colour 6000K Average life 750h Hot re-ignitable, 230V 575 Watt Length 135mm Ø 21mm Manufacturer: Osram, Philips, Sylvania or Radium Z-L-9355
	<b>Lamp MSD 575W /2 GX9,5</b>	Discharge lamp BA575/2 SE = MSD575 W =HSD 575 Watt = RSD 575W, 7200K Z-L-9358-2 Luminous flux 45000 Lm Average life 1000h for spotlights or projectors, Length 125mm Weight: kg
 Geo-Technik		

**Small Lamps**

	<b>Miniature Lamp 12V/4W BA 9s</b>	Light bulb Bulb with bayonet base for desk lamp, bicycle, work lamp Z-L-9500
	<b>10 pcs. Glow lamps 110 - 220V with wire ends</b>	Small glow lamp as control lamp in light switches, irons or as ignition lamp in small stroboscopes. Z-L-9580-10

**Incandescent Lamps E14 Halogen**

	<b>Halogen Lamp Tube E14 60W</b>	Clear halogen bulb in slim tube shape RJH-TD 230V Z-L-E14H06T
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**Halogen BiPin Lamp**

	<b>Halogen Lamp 12V 5W G4</b>	Pin base lamp G4, 12V Halogen Luminous flux 55 lm Lifetime 4000h Length 33mm, D 10mm Z-L-G4W05
	<b>2 x Halogen Lamp 12V 8W G4</b>	2 pieces pin base lamp G4 halogen Z-L-G4W09
	<b>Halogen Lamp 12V 10W G4</b>	Pin base lamp G4 Halogen Z-L-G4W10
	<b>Halogen Lamp 12V 14W IRC G4 energy saving</b>	Energy-saving pin-base lamp G 4 halogen, with the luminous intensity of a 20W halogen lamp. Z-L-G4W14 Skylight IRC low pressure lamp. Luminous flux 240 Lm Lifetime 4000h Dimensions: L 33mm, D 10mm Due to the infrared filter coating of the glass, the heat radiation is retained in the glass bulb. The result: less energy is needed to maintain the filament temperature. 30% lower power consumption with exactly the same light output. Weight: kg
 Geo-Technik		

Halogen Lamp 12V 20W G4

Pin base lamp G4 Halogen, brand name  
Z-L-G4W20C

## Projection Lamps and Others



**Reflector Lamp 24V 250W, ELC  
500h Longlife**

Halogen lamp GY6.35 / GX5.3 , Sylvania or 13163 Philips  
ELC/5 (500h),  
Light colour 3250K  
Luminous flux 960 lm  
Voltage: 24 V  
Z-L-G5R250L

## Projection Lamps and others



**Halogen Reflector Lamp G5.3  
120V 250W**

Halogen lamp ENH 93506, base GX5.3 with reflector  
Light colour 3250K  
Lifetime 175h  
Z-L-G5R251

## Projection Lamps and Others



**Halogen Reflector Lamp GZ6,35  
12V 100W**

Lamp for projector, HLX 64627 =EFP, A1/231  
Colour temperature: 3350K  
Lifetime: 50h  
Z-L-G6R100

## Halogen BiPin Lamp



**Halogen Lamp 24V 150W G6,35**

Pin-base lamp GY6.35 halogen, 2000h  
Luminous flux 3200 lm  
Lifetime: 300h  
Dimensions: Ø 16mm  
Horizontal filament for headlamp.  
Z-L-G6W150

## Lamps for stage lighting G6.35 or GX6.35



**Halogen Lamp 250W 24V A1/223  
EHJ**

Halogen pin-base lamp G6.35 for projection, 7748XHP, HLX 64655, 7748  
Brand name,  
Luminous flux 10000 lm  
Lifetime 50h  
Dimensions: Ø 13,5mm  
Z-L-G6W250

## Halogen BiPin Lamp



**Halogen Lamp 250W 24V M33  
EVC**

Pin base lamp G 6,35 Halogen, 7748, 7748XHP, HLX 64657  
Luminous flux 9000 lm  
Lifetime 300h  
Dimensions: Ø 13,5mm  
Z-L-G6W251



**Halogen Lamp Bi-Pin G6.35 35W  
12V**

Pin-base lamp G 6.35 halogen, brand name  
Luminous flux 600 lm  
Light colour 3000K  
Lifetime 3000h  
Z-L-G6W35

## Lamps for stage lighting G6.35 or GX6.35



### Halogen Lamp G6,35 400W 36V

Halogen lamp, brand manufacturer, G.E. 50 h

Z-L-G6W400

## Halogen BiPin Lamp



### Halogen Lamp 12V 50W G6.35

Halogen pin-base lamp, brand name  
Luminous flux 900 lm  
Service life 3000 h  
Z-L-G6W50



### Halogen Lamp G9 230V 30/ 40W

Halogen HV lamp G9 for mains voltage.  
Small high voltage pin-base lamp.  
Luminous flux 490 lm  
Lifetime 1500h  
German make.  
Z-L-G9040

### Halogen Lamp G9 230V 40W

Halogen HV lamp G9 for mains voltage.  
Z-L-G9042

## Incandescent Lamps E14 Halogen



### Halogen Energy Saving Lamp Candle Shape 28W (40W) E14

Dimmable halogen lamp Classic Candle energy-saving, as replacement for 40W incandescent lamp.  
Z-L-HE14K28

## Dimmable Halogen Reflector Lamps



### Halogen Energy Saving Reflector Lamp R50 28W (40W) E14

Dimmable halogen lamp / energy-saving lamp as replacement for 40W reflector lamp.  
30% energy saving compared to incandescent lamps.  
Dimmable  
Approximately twice the life, 2000 h.  
High luminous efficacy for white, radiant light.  
The light spectrum is comparable to that of normal incandescent lamps.  
Operating voltage 220 - 240V

Dimensions:  
Ø 50 mm, length 86mm  
Z-L-HE14R50

## Incandescent Lamps E14 Halogen




### Halogen Energy Saver Lamp E14 Golf Ball 18W (25W)

Dimmable halogen lamp Classic drop shape G45 energy-saving, as a replacement for a 25 W incandescent lamp.  
Luminous flux 180 lm  
30% energy saving compared to incandescent lamps.  
Up to twice the service life, 2000 h.  
High luminous efficacy and energy-saving at the same time.  
The light spectrum is comparable to that of normal incandescent lamps.  
Operating voltage 220 - 240V,  
Small spherical lamp



Dimensions:  
Ø 45 mm, length 72mm  
Z-L-HE14T18




**Incandescent Lamps E27 Halogen**

	<b>Halogen Energy Saving Bulb 18W (25W) E27</b>	<p>Dimmable energy-saving bulb to replace 25 Watt incandescent bulb A55. The appearance of the lamp and the light spectrum is similar to normal incandescent lamps. Luminous flux 220 lm 30% energy saving compared to a 25 W incandescent lamp. High luminous efficacy for pleasantly bright light. The lamp is immediately bright - no waiting time. Up to twice the life: 2000h. Operating voltage 220 - 240V</p> <p>Dimensions: Ø 55 mm, length 95mm Z-L-HE27-18</p>
	<b>Halogen Energy Saving Lamp 28W (40W) E27</b>	<p>Dimmable energy-saving bulb to replace 40 Watt incandescent bulb A55. Z-L-HE27-28</p>
	<b>Halogen Energy Saving Lamp 70W (100W) E27</b>	<p>Dimmable halogen lamp / economy lamp as a replacement for 100 Watt incandescent bulb A55. Z-L-HE27-70</p>



**Dimmable Halogen Reflector Lamps**

	<b>Halogen Energy Saving Reflector Lamp R63 28W (40W) E27</b>	<p>Dimmable halogen lamp / energy-saving lamp as replacement for 40 W reflector lamp. The appearance of the lamp and the light is similar to normal reflector incandescent lamps. Luminous flux 335 lm 30% energy saving compared to a 40 Watt reflector incandescent lamp. High luminous efficacy for white, radiant light. Dimmable Up to twice the life: 2000h. Operating voltage 220 - 240V</p> <p>Dimensions: Ø 63 mm, length 104mm Z-L-HE27R63-2</p>
	<b>Halogen Energy Saving Reflector Lamp R63 42W (60W) E27</b>	<p>Dimmable halogen lamp / energy-saving lamp as replacement for 60 W reflector lamp. Z-L-HE27R63-4</p>
	<b>Halogen Energy Saving Reflector Lamp R80 42W (60W) E27</b>	<p>Dimmable halogen lamp / energy-saving lamp as replacement for 60 Watt reflector lamp. Cf. PAR25 Z-L-HE27R80-4</p> <p>The appearance of the lamp and the light is similar to normal incandescent lamps. Luminous flux 500 lm 30% energy saving compared to a 60 W reflector incandescent lamp. High luminous efficacy for white, radiant light. Dimmable Up to twice the life: 2000h Operating voltage 220 - 240V</p> <p>Dimensions: Ø 80 mm, length 110mm Weight: kg</p>


**Incandescent Lamps E27 Halogen**

	<b>Halogen Saver Lamp E27 Golf Ball 18W (20W)</b>	<p>Dimmable halogen lamp Classic drop shape B45 energy-saving, as replacement for 25 W incandescent lamp. Also for fairy lights Z-L-HE27T18</p> <p>The appearance of the lamp and the light is similar to normal incandescent lamps. Luminous flux 180 lm 30% energy saving compared to incandescent lamps. High luminous efficacy for white, radiant light. Up to twice the life, 2000 h. Operating voltage 220 - 240V, Small spherical lamp</p> <p>Dimensions: Ø 45 mm, length 72mm Weight: kg</p>
	<b>Halogen Saver Lamp E27 Golf Ball 28W (35W)</b>	<p>Dimmable halogen lamp Classic drop shape B45 energy-saving, as replacement for 40 W incandescent lamp. Also for fairy lights Z-L-HE27T28</p>

**Compact Fluorescent Lamps**

	<b>Fluorescent Lamp 18W 4Pin 2G11 -18PLL840</b>	<p>Lamp 2G11 Ralux = Dulux, light colour 840 neutral white 4000K Luminous flux 1200 lm Service life 12,000 h Length 217mm Z-L-L2G11-18</p>
	Compact Fluorescent Lamp Dulux 24W 2G11 pure white	Lamp 2G11 Ralux = Dulux, light colour 840 neutral white 4000K Z-L-L2G11-24L
	Compact Fluorescent Lamp Dulux L 36W 2G11	Lamp CF-L36W 840, light colour neutral white 4000K Z-L-L2G11-36-4
	<b>Compact Fluorescent Lamp Ralux 5W 2G7</b>	<p>Lamp 2G7 Ralux = Dulux S/E-5W = PL-S/4p 5W = LYNX CF SE-5W, light colour warm tone 3000K Luminous flux 250 lm length 85mm, for operation with ECG Z-L-L2G7-05-3</p>
	Compact Fluorescent Lamp Ralux 7W 2G7	Lamp 2G7 Ralux = Dulux S/E-7W = PL-S/4p 7W = LYNX CF SE-7W, light colour warm tone 3000K Z-L-L2G7-07-3
	Compact Fluorescent Lamp Ralux 9W 2G7	Lamp 2G7 Ralux = Dulux S/E-9W = PL-S/4p 9W = LYNX CF SE-9W, light colour warm tone 3000K Z-L-L2G7-09-3

**UV Blacklight and Solarium Tubes**

	<b>UVAsoI 100W 79/G13 Fluorescent Lamp</b>	<p>High quality UVA lamps cf. PureBronze, Eversun for solarium. Fluorescent tube as solarium tube. In stock only 2 pcs. 100W with reflector. Z-L-L9000</p> <p>Only for use in the appropriate sunbeds ! Very low UV-B radiation - only 0.8%. Economic lifetime 500h Length: 1760mm (100W) Ø 26 mm</p> <p>UV tubes are fragile. The extra charge for secure packaging is 5 Euro once or by collection. Weight: kg</p>
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## Energy Saving Lamps E14



### Energy Saving Lamp Chandelier E14 Dimmable 9W

Energy-saving lamps in candle shape, infinitely dimmable, bright like a candle lamp 45W  
Z-L-LE14K6

Luminous flux 405 lm  
Luminous intensity corresponds approximately to a 45 Watt incandescent lamp.  
Dimmable from 10% to 100%,  
with standard household dimmers.  
Light colour 827 warm tone  
Supply voltage 230V  
Power consumption 9 Watt  
Average life 10.000 h longlife  
Dimensions: L 113mm, Ø 43mm  
Weight: 0,15 kg

## Energy Saving Lamps E27 w. Reflector



### CFL Energy Saving Reflector Lamp E14 R50 9W

ESL energy-saving reflector lamp. As bright as a 40W R 50 lamp.  
With integrated, fully electronic ballast,  
fast starting and fast brightness.  
Luminous flux 200 lm  
Light colour 830 warm white  
Connected voltage 230V  
Power: 9 Watt  
Average life 10000 hrs.  
Dimensions: L 93mm, Ø 50mm  
Z-L-LE14R9

## Energy Saving Lamps E27



### CFL Energy Saving Lamp 24V DC 15W E27

Economy lamp for 24 volts DC. For battery operation, ship, boat, bus, safety extra-low voltage.

Stock: 1 piece  
Z-L-LE27DC15-2  
Stock: 1 piece

Voltage 24 V DC (range 20V ... 30V)  
Current consumption 625 mA  
Light intensity > 900 Lm  
Light colour 2700K warm tone  
Average life 8000h  
Temperature range -10° to +50°C  
Dimensions: Length 150mm, Ø 50mm  
Weight: 0,08 kg



### Energy Saving Lamp E27 SL 10W Top Mirror Globe E27

Head mirror lamp energy-saving, glare-free head mirrored.  
Discontinued item - only 1 available.

Z-L-LE27GS  
Stock: 1 piece

Voltage 220 - 240V  
Power consumption 10W  
The brightness corresponds to 55W incandescent light.  
Light colour 827 warm tone  
Dimensions: L 140 mm, Ø 100 mm  
Weight: kg


	<b>Energy Saving Lamp Cup-Shaped 11W</b>	Decorative energy-saving lamp 11 Watt = 50W. E.g. suitable for wall lamps. Discontinued item - only 2 pieces available. Z-L-LE27KB15 Stock: 2 pieces
	<b>Energy Saving Chandelier Bulb E27 Twisted 11W</b>	Deco candle lamp energy saving 11 Watt = 50W Z-L-LE27KD11 Stock: 1 piece
		Luminous flux 450lm Average life 8000h Light colour 2700K warm tone Length 135mm Ø 48mm Weight: kg
	<b>CFL Energy Saving Reflector Lamp R63 9W E27</b>	ESL energy-saving reflector lamp. Corresponds to the brightness of a 50W R 63 lamp. Z-L-LE27R11 Stock: 8 pieces
		With integrated, fully electronic ballast, Light distribution wide: 117 Light colour 827 warm white Average life 10,000 h Dimensions: L 110mm, Ø 63mm Weight: kg
	<b>CFL Energy Saving Reflector Lamp R95 15W E27</b>	ESL energy-saving reflector lamp. Corresponds to the brightness of a 70W lamp. Z-L-LE27R16

**Energy Saving Lamps 24V DC E40**




	<b>CFL Energy Saving Lamp 24V DC 45W E40</b>	Very bright energy-saving lamps for 24 volts DC, e.g. battery or solar. Stock: 1 piece
		Average life 8000h Voltage 24 V DC (range 20V ... 28V) Current consumption 1800 mA Light intensity >2250 Lm Overtemperature protection Light colour 4000K neutral white Temperature range -10 to +40°C Length 280mm Z-L-LE40DC45

**Compact Fluorescent Lamps**



	<b>Compact Fluorescent Lamp 11W TC-S G23</b>	Compact fluorescent lamp Ralux RX-S = PL-S/2p 11W = LYNX CF S-11W with 2-pin base, light colour 830 Z-L-LG23-11
	<b>Compact Fluorescent Lamp PL-C G24d-3 26W</b>	3-tube compact fluorescent lamp, TC-D, G24d (2-pin) PL-C. Light colour 830 or 840. Z-L-LG24d26
	<b>Compact Fluorescent Lamp G24q-1 10W</b>	PLC, TC-DEL Rod shape 2-tube compact fluorescent lamp, (4-pin) Brightness =40W, Light colour 830 warm white 3000K Z-L-LG24q10

	<b>Compact Fluorescent Lamp G24q-1 13W</b>	PLC, TC-DEL Rod shape 2-tube compact fluorescent lamp, (4-pin) Brightness =60W, light colour 830 warm white 3000K Z-L-LG24q13
	<b>Compact Fluorescent Lamp G24q-2 18W</b>	PLC, TC-DEL 2-tube compact fluorescent lamp, base G24q (4-pin). Light colour 827 / 840 / 860 Z-L-LG24q18
	<b>Compact Fluorescent Lamp G24q-3 26W</b>	PLC, TC-DEL compact fluorescent lamp with base G24q (4-pin). Light colour 827 / 840 / 860. Z-L-LG24q26

## Energy Saving GU10 or G9 Lamps

	<b>Energy Saving Lamp G9, 9W</b>	Compact energy-saving lamp for G 9 socket. Equivalent to 40W halogen lamp. Light colour 830, warm white light Luminous flux: 405 Lm As a replacement for 40W halogen lamps G9. This lamp fits in most commercially available G9 luminaires. Power: 9 Watt Voltage: 230V Lifetime 8000 hours. Not dimmable. Length 85mm Ø 33mm Z-L-LG909
	<b>Energy Saving Lamp with Reflector GU 10, 7W</b>	Energy-saving reflector lamp GU 10. 7 W = 35W Z-L-LGU06  8,000 h lamp burn time, Light colour warm tone 2700K Luminous flux 250 Lm Operating voltage 230V Length 70mm, Ø 50mm Weight: kg
	<b>Energy Saving Lamp with Reflector GU 10, 7W Short</b>	Low-cost energy-saving reflector lamp GU 10. 7 W = 35W. Short design Z-L-LGU07  8,000 h lamp burn time, Light colour warm tone 2700K Luminous flux 150 Lm Operating voltage 230V Length 66mm, Ø 50mm Weight: kg

## Compact Fluorescent Lamps

	<b>Compact Fluorescent Lamp GX24q-2 18W</b>	Compact fluorescent lamp KLD-T/E 18W/ 830, 4-pin, for electronic ballasts. Z-L-LGX24Q18
	<b>Compact Fluorescent Lamp GX24q-4 42W</b>	Compact fluorescent lamp KLD-T/E 42W/ 840, 4-pin, for electronic ballasts. n-white or warm white. Z-L-LGX24Q42
	<b>Compact Fluorescent Lamp GX24q-1 Helix 10W</b>	Helix 10W/ 827 compact fluorescent lamp, 4-pin, for electronic ballasts. Warm white. Discontinued item - only small remaining stock Luminous intensity 650 Lm Light colour warm white 830 Dimmable in suitable luminaires length 90mm Ø 60mm Z-L-LGX24Q60

Compact Fluorescent Lamp  
GX24q-1 Helix 13W

Helix 13W/ 830 compact fluorescent lamp, 4-pin, for electronic ballasts. warm white.  
Discontinued item - only small remaining stock  
Z-L-LGX24Q61

## Energy Saving Lamps R7s for halogen floodlights



**Energy Saving Lamp R7s 78mm  
9W**

Replaces a halogen lamp 48W, 60W, 80W, 100W or 150W. The brightness is comparable to about 48W halogen.  
Energy-saving halogen rod for halogen floodlights. The lamp consumes only 10% electricity and lasts about 8 times as long and does not get as hot.  
Ideal for lighting duration from 1 minute, e.g. yard lighting, garden, workshop, hall, painting, shop ...  
Z-L-LR7S09

In stock: only 2 pieces



8000 operating hours.  
Light colour warm white  
Power consumption 9 Watt - corresponds to about 40W incandescent light.  
With R7s socket.  
For easy replacement of the previous halogen rods.  
Not dimmable  
Height 34 mm,  
Contact spacing 78mm,  
diameter 78mm.

Energy saving until the end of the lamp's service life approx. 105 euros (electricity costs and omitted replacement lamps).  
Weight: 0,15 kg



**Energy-saving lamp R7s 118mm  
Dimmable 24W instead of  
halogen rod**

The lamp replaces halogen rods 100W, 120W, 150W, 200W or 300W for floodlights, consumes only 10% power and lasts about 8x as long and does not get as hot.  
The brightness is comparable to about 200W halogen.  
Energy-saving halogen lamp for floodlights. The lamp consumes only 10% power and lasts about 8x as long.  
Ideal for lighting duration from 1 minute, e.g. for floor lamp, ceiling floodlight at home or catering lighting ...  
Z-L-LR7S25

6000 operating hours.  
Light colour 2700K warm white  
Luminous intensity 1400 Lm.  
Power consumption 24 Watt - corresponds to about 200W incandescent light.  
With R7s socket.  
For easy replacement of the previous halogen rods.  
Can be connected via standard dimmers.  
Length 118 mm,  
diameter approx. 77mm.

Energy savings until the end of the lamp's service life approx. 205 euros (electricity costs and replacement lamps not required)  
Weight: kg











## Fluorescent Tubes T8 / T26 (26mm)






**Fluorescent Tube Circular 40W  
T9**

Circular lamp 409mm, 30mm, T8  
Circle Ø 409mm, tubes Ø 32mm  
Base G 10q  
Colour rendering 2a  
Luminous flux: 2800 Lm  
Light colour 840-020 coolwhite / neutral white  
Z-L-LRING40

Fluorescent Tubes T5 / T16 (16mm)		
	<b>Fluorescent Tube T5, 14W, 549mm</b>	T16 3-band fluorescent lamp G5, warm white 830 / universal white 840. High colour rendering quality 1B Luminous flux: 1200 lm Length 549mm Ø 16mm Long life 20000 h in conjunction with ECG. Z-L-LT5-14
	Fluorescent Tube T5, 21W, 849mm	T16 = NL-T5 =TL-D 3-band fluorescent lamp G5 830 or 840. Z-L-LT5-21
	Fluorescent Tube T5, 24W, 549mm, 840	T16 =TL-D =NL-T5 Super NL 3-band fluorescent lamp G5 universal white. Z-L-LT5-24-N
	Fluorescent Tube T5, 28W, 1149mm	T16 = NL-T5 =TL-D Lampe fluorescente à 3 bandes G5 840 blanc / 830 blanc chaud. Z-L-LT5-28
	<b>Fluorescent Tube 35W T5, 1449mm Coloured</b>	T16 =TL-D coloured fluorescent lamp 152 red or 016 yellow. Z-L-LT5-35C
		Real fluorescent tube for operation in a luminaire with ECG length 1449mm Ø 16mm 230 volt, 50 Hz
		Fluorescent tubes are fragile and can only be shipped in special packaging. The extra charge is 9 Euro once or by collection. If you order a packaging unit of 25 pcs. per model, we will take over these costs for you. Weight: 0,15 kg
	<b>Fluorescent Tube T5, 35W EQ 1449mm, 3-band</b>	T16 = NL-T5 =TL-D 3-band fluorescent lamp G5. Luminous flux: 3300 lm Light colour 840 neutral white Colour rendering level 1B length: 1449mm Ø 16mm Average life: 10000h
		Fluorescent tubes are fragile and can only be shipped in special packaging. The extra charge is 9 Euro once or by collection. If you order a packaging unit of 25 pcs. per version, we will take over these costs for you. Z-L-LT5-35W
	Fluorescent Tube T5, 54W, 1149mm	T16 =TL-D =NL-T5 Super NL 3-band G5 fluorescent lamp universal white, daylight or warm tone. Z-L-LT5-54
	Fluorescent Tube T5, 80W, 1449mm	T16 =TL-D =NL-T5 Super NL 3-band fluorescent lamp G5 , warm tone. Z-L-LT5-80

Fluorescent Tubes T8 / T26 (26mm)		
	Fluorescent Tube 18W T8 Triphosphor 830 835	Fluorescent lamp 60cm, T26 =TL-D 835, high light quality 1B / 3-bands, German brand. Z-L-LT8-18-835
	Fluorescent Tube 18W T8 Triphosphor 840	T26 =TL-D fluorescent lamp 60cm, high light quality 1B / 3-bands 21-840, German brand. Current stock 1 pc - re-order only in VE=25 pcs. Z-L-LT8-18-840

<p>Fluorescent Tube 18W T8 Triphosphor 865</p>	<p>Fluorescent lamp 60cm, T26 =TL-D 11-865 daylight, German brand. Z-L-LT8-18-860</p>
<p>Fluorescent Tube 36W T8, Triphosphor 830 / 840</p>	<p>T26 =TL-D fluorescent lamp 120cm, 3-bands high light quality 1B, brand name. Z-L-LT8-36-8</p>
	<p><b>Fluorescent Tube 36W T8, coloured</b></p>
<p>Coloured T26 =TL-D fluorescent lamp 120cm in red, yellow, green or blue. EU quality. Available in red, 62 yellow, green, blue. Length: 1200 mm Ø 26mm</p> <p>Current stock: red 3 pcs. yellow 1 pc. green 4 pcs. blue 2 pcs.</p> <p>Fluorescent tubes are fragile and can only be shipped in special packaging. The extra charge is 5 Euro once or by collection. If you order more than 20 pieces - also mixed - we will take over these costs for you. These fluorescent tubes are only sold from our stocks. Please enquire about current stock levels by telephone or e-mail. Z-L-LT8-36-COL</p>	
<p>Fluorescent Tube T8 58W, Triphosphor</p>	<p>T26 =TL-D fluorescent lamp 150cm, 3-band high light quality 1B, 21-840 =white or 865=daylight Z-L-LT8-58-8</p>
	<p><b>Fluorescent Tube LT-58W T8 De Luxe</b></p>
<p>Fluorescent lamp =TL-D 58W in 5-band quality for particularly good colour rendering. Luminous intensity 3700 Lm. Best colour rendering level 1A Light colour 950 daylight or 965 bright white Length 1500 mm Ø 26 mm</p> <p>Fluorescent tubes are fragile and can only be shipped in special packaging. The extra charge is 5 Euro once or by collection. Z-L-LT8-58-900</p>	
	<p><b>Fluorescent Tube 58W T8, coloured 1500mm</b></p>
<p>Coloured T26 fluorescent lamp F58W 150cm coloured in red, yellow, green or blue. German brand. Available in red, 62 yellow, green, blue. Length: 1500 mm Ø 26 mm</p> <p>Current stock: red 3 pcs. yellow 12 pcs. green 10 pcs. blue 8 pcs.</p> <p>Fluorescent tubes are fragile and can only be shipped in special packaging. The extra charge is 5 Euro once or by collection. For order quantities of 20 pcs. or more - also mixed - we will take over these costs for you. Z-L-LT8-58-COL</p>	





## Fluorescent Tube T8 Fresh Light Grocery

T26 fluorescent lamp for product presentation for bakery, fruit, vegetables and fresh fish. 36W, 58W  
The goods appear in brilliant light and are presented fresh and appetising.  
Colour temperature 2450K, warm white deluxe  
Service life: 16,000 h  
Ø 26 mm

Available in:  
18W, luminous flux 1125 lumen, length 590 mm,  
36W, luminous flux 2700 lumen, length 1200 mm,  
58W, luminous flux 4300 lumen, length 1500 mm,

Fluorescent tubes are fragile and can only be shipped in special packaging.  
The extra charge is 5 Euro once or by collection.  
For order quantities from 20 pcs - also mixed, we will take over these costs for you.  
Z-L-LT8-Fresh



## Fluorescent Tube T8, for low temperature 18W 36W 58W

In protection tube T12 for operation in cooling zones, cold room or outdoors at cold temperatures.  
Z-L-LT8-K



Fluorescent lamps T8 have their maximum luminous flux at an ambient temperature of 25°C and are therefore not very suitable for outdoor use in open luminaires. In cold-resistant fluorescent lamps, the T8 lamp (Ø 26 mm) is surrounded by a T12 protective tube (Ø 38 mm). This means that the maximum luminous flux of the LT-ET 58 W, for example, is achieved at 5°C ambient temperature. The use of the energy-saving T8 lamp in outdoor lighting and in cold stores becomes much more effective or only makes sense.

Light colour 840 neutral white  
Luminous flux of the 36W tube: 2400 lm (25°C), 2650lm (5°C)  
Length: 590mm (18W) / 1200mm (36W) / 1500mm (58W)  
Voltage: 220 - 240V AC

Fluorescent tubes are fragile and can only be shipped in special packaging.  
The extra charge is 5 Euro once or by collection.  
Weight: 0,2 kg



## Fluorescent Tube Shatterproof T8

Shatterproof fluorescent lamp in 18W, 36W, 58W. For food industry etc.  
Z-L-LT8-Split



Colour temperature: 4000K neutral white,  
service life: 16,000 h  
Ø 26 mm

Available:  
18W, 590mm, 1300 Lm  
36W, 1200mm, 3150 Lm  
58W, 1500mm, 5050 Lm

Fluorescent tubes are fragile and can only be shipped in special packaging.  
The extra charge is 5 Euro once or by collection.  
For order quantities from 20 pcs - also mixed, we will take over these costs for you.  
Weight: 0,2 kg

## Discharge Lamps, Stage

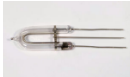


**Xenon flash lamp 4mm rod shape**

Xenon lamp for stroboscope.  
Z-L-STRI4

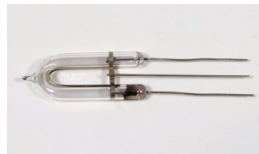


Tube length 46mm  
Tube diameter 4mm  
Weight: kg



**Xenon flash lamp 6mm U-shape**

Xenon lamp for stroboscope.  
Z-L-STRU6



Tube length 45mm  
Width 19mm  
Tube diameter 6mm  
Weight: kg

## Traffic Lights



**LED Lamp for Traffic Light 200mm**

Energy-saving, 230V bulb E27 for traffic light signalling systems in all areas.  
Red, green or yellow light.  
Z-L-VT-LED200



This bulb is screwed into the traffic light instead of the previous bulb.  
Diameter 200mm  
Service life 50,000 hours.  
Operation directly in front of the reflector, instead of the previous incandescent lamp.  
Power consumption 10W  
Operating voltage: 220 - 240V  
Weight: kg

## Accessories for outdoor fixtures

House Number Set for Wall Fixture

Letters A - J and 3 numbers 0 - 9 each, black, self-adhesive.  
Z-LA1140



Protection Grill for Square or Act 150  
Z-LA1220

## Spare Parts For Spotlights



**Mounting Bracket 300° for ACT floodlight**

For wide swivelling of floodlights.  
Only limited availability !  
Z-LA1220A

## Accessories for outdoor fixtures



Z-LA1222RA



Louvre for Floodlight ACT 70 /150  
Z-LA1224



Shades for Act Floodlight 70 /150  
Z-LA1227



Protection Grill for Evolution Floodlight

Splinter protection for 250W or 400W outdoor floodlights.  
Z-LA1262G



Louvre for Evolution Floodlight  
Z-LA1262LG

## Spare Parts For Spotlights



Front Glass for ACT Floodlight 70 /150

Glass pane for LEG headlights ACT by LEG Italy.  
Z-LA1360-G

## Accessories for outdoor fixtures



**Mounting Adapter for Rescue Lights**

For 30mm spigot mounting on emergency vehicle. Spigot mount for quick attachment of headlamps to tripods or jibs. Suitable for the THW and fire brigade system. Incl. M10 hexagon head screw. Minimum order quantity: 5 pieces  
Z-LA2013



Controller for Power RGB LED Bar  
Z-LALD110

Fixing clip stainless steel  
Z-LALDL01

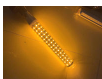
## LED Lamps MR11 and G4



LED lamp insert 12V G4 warm white

LED plate instead of halogen lamp 10W with G4 pin base. E.g. for flat recessed furniture luminaires. warm white  
Z-LED-20R12-WS

## LED Lamps for Street Lighting E27



**SOX LED Lamp replacement 35W-20W BY22**



LED corn cob lamp 12V-24V replaces the yellow SOX lamp BY22d  
Z-LED-BY22-02




In contrast to the sodium lamp, this lamp has no UV components, so that fewer insects are attracted.







Luminous flux: 1620 Lm  
Light colour: 2000K yellow  
Base: BY22  
Voltage: 12V or 24V  
Voltage range: 10V - 30V  
Power consumption: 15 watt  
Light distribution: 360 degrees  
Light source: Power SMD LED, all-round  
Duty cycle: 0.1 sec.  
Permissible ambient temperature: -40°C ... +45°C  
Length: 240mm  
Ø 45mm

WEEE, CE, RoHs  
Sale only possible to commercial customers !  
Weight: 0,075 kg

	<p><b>LED Street Light Lamp 30W E27 230V Retrofit</b></p>	<p>Energy-saving LED street lamp with aluminium heat sink for long life. Replaces an 80W HQL lamp. Use in street luminaires. On order available 2200K - 6000K Z-LED-E27AC30</p> <p>Replacement without conversion of the street lighting to energy-saving LED technology. The retrofit lamp can be used in normal lamp sockets or street luminaires, that do not have a ballast or have a ballast for mercury vapour lamps (HQL, HPL, HSL). With other ballasts or luminaires with igniters, the retrofit lamp may be destroyed. If in doubt, ask us.</p> <p>Luminous flux: 3240 Lm                  Light colour: 3000K warm white (6000K or 4000K neutral white on special order)                  Socket: E27                  Operating voltage: 100 - 265V AC                  Surge protection: 2 kV                  Power consumption: 30 Watt                  Built-in power stabilisation that ensures constant light intensity even when mains voltage fluctuates.                  Light distribution: 360 degrees                  Light source: SMD LEDs, all-round                  Average life: 50000 hours                  Ambient temperature: -20°C ... +40°C                  Length: 207 mm                  Diameter Ø: 78mm                  WEEE, CE, RoHs</p> <p>Sale only possible to commercial customers !                  Use only in a luminaire with contact protection.                  Overvoltage and high temperatures can destroy LED lamps !                  LED lamps are excluded from exchange.                  Weight: 0,4 kg</p>
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## LED incandescent bulb E27

	<p><b>LED Golf Ball Lamp E27 1W G45 white</b></p>	<p>LED lamp drop B45 white as replacement for incandescent lamps. Drop shape for fairy lights, Christmas lighting or party lighting. Z-LED-E27G01</p> <p>Also for amusement rides, bathroom mirrors, street lighting and outdoors. Luminous intensity 4000 mcd - corresponds to about 10W incandescent light.                  Service life 30,000 h                  Insensitive to shocks during transport or screwing in                  Socket E27 normal                  Operating voltage: 230 volts                  Power consumption approx. 1 Watt                  Length 68mm                  Ø 45mm                  WEEE, CE, RoHs</p> <p>Sale only possible to commercial customers !                  Weight: 0,03 kg</p>
	<p><b>LED Golf Ball Lamp E27 1W G45 coloured</b></p>	<p>LED lamp drop B45 in red, yellow, green or blue, as energy-saving replacement for incandescent lamps. Drop shape for fairy lights, Christmas lighting or party lighting. Z-LED-E27G1</p>
	<p><b>LED Bulb Lamp E27 2W White or Coloured</b></p>	<p>LED drop shape B45 as a replacement for an incandescent bulb. For fairy lights, illumination, Christmas lighting or party lighting. Z-LED-E27G2</p>

 	<p><b>LED Filament Bulb Lamp E27 4W</b></p>	<p>LED filament lamp with visible filament. Deceptively real appearance of a 40W incandescent lamp. Energy-saving. 230 Volt Z-LED-E27G34</p> <p>When switched off - the filament looks yellow. When lit, the filament shines white and very bright. The light looks deceptively similar to an incandescent lamp and is pleasantly warm.</p> <p>Light colour: warm white 2700K Luminous flux 450 Lm Operating voltage: 170V - 240V AC Power: 4 Watt Light distribution: 300 Permissible ambient temperature: -30°C ... +45°C Colour rendering quality: Ra &gt;80 (high) Lamp temperature: &lt; 60° Celsius LED temperature: &lt; 65°C Decreasing light output: 3% - 5% 1KH Lifetime: 40000 h No UV or IR radiation Dimensions: Length 107mm, Ø 60mm Approvals: CE, RoHS, WEEE Weight: kg</p>
	<p><b>LED Filament Bulb Lamp E27 6W</b></p>	<p>Bright LED filament lamp with visible filament. Deceptively real appearance of a 60W incandescent lamp. Energy saving. 230 Volt Z-LED-E27G36</p>
 	<p><b>LED Globe Lamp 120mm E27 13W</b></p>	<p>LED globe lamp 12cm, opal. Equivalent to 120W incandescent lamp Z-LED-E27G41</p> <p>Ideal in pendant lights and ceiling lights. Voltage: 220 - 240V Power consumption 15W corresponds to 120W incandescent light. Light colour 827 warm tone Average life: 50000 h Dimensions: L 170 mm, Ø 120 mm Weight: 0,18 kg</p>
 	<p><b>LED Globe Bulb Lamp E27 6W - 8W SMD (60 Watt)</b></p>	<p>Finally a bright SMD LED lamp in living room quality. Replaces a 60W incandescent bulb A60, mercury-free. Z-LED-E27G6</p> <p>Luminous flux 500 - 640 Lm Light colour warm white 3000K Operating voltage: 200V - 240V AC Permissible ambient temperature: -30°C ... +45°C Colour rendering quality: Ra &gt;80 (high) Material: thermoplastic Lifetime 15000 hrs. Length: 108mm Ø 60mm Weight: 0,1 kg</p>

**LED Lamps E40**



**LED Street Light Lamp E40  
Retrofit 28W**



Bright, energy-saving LED lamp. Directional light, even with old, matt reflectors in the existing luminaire.  
Easy conversion of street lighting from 80W HQL HPL or 50W sodium vapour to LED.  
Solid aluminium heat sink for long service life.  
Z-LED-E40R28

Retrofit older street lights with mercury vapour lamps, such as HPL, HQL, HRL or HSL:  
Remove the old lamp centre and then screw this retrofit lamp into the street lighting.  
The old ballast (choke) can remain in the luminaire.  
The new LED lamp can be operated with or without ballast.  
Important: If there is an igniter / starter in the old lamp, it must be removed beforehand.

This bright LED lamp consists of an effective aluminium heat sink, which keeps the operating temperature particularly low.  
This prolongs the life of the lamp considerably.  
The reflector in the old lamp is not used, only the directly emitted light of the LEDs.  
This results in less light loss and higher luminous efficacy on the road.  
After screwing in the economical LED lamp, it can still be adjusted so that it radiates evenly in the desired direction.  
Energy saving, considerably longer durability and savings in maintenance costs.

LED chip: 28 x 1W High Power LEDs  
Brightness: 2670 lumen (equivalent to 50W NAT lamp at 6m pole height or 80W HQL / HPL lamp at 7m pole height)  
Average luminous intensity 13 lux at 6m height.  
Light distribution: Horizontal axis: 120°, vertical axis: 60°.  
Base type: E40  
Light colour: 3000K (warm white) or 4000K (neutral white)  
Light output ratio: 95 Lm/W  
Service life: Approx. 40,000 h = approx. 10 years  
Power consumption: max. 29 Watt (LEDs: 28 Watt)  
Voltage: 85 - 265VAC (universal) 50Hz - 60Hz  
Dimensions: Length 275 mm, Ø 92 mm  
Rotatable: 360° (after screwing into the socket)  
Housing: aluminium profile heat sink, PC  
Protection class: IP54

For professional use only  
Minimum order quantity: 2 pieces  
Weight: 0,95 kg

**LED Lamps MR11 and G4**



**LED lamp 12V G4 white**

Dimmable SMD LED lamp instead of halogen lamp 10W with G4 base.  
Radiating all around  
Suitable for desk lamps and ceiling lamps etc.  
Not suitable for shallow recessed furniture luminaires as the bulbs are too thick.  
With 25 x High Flux LED.  
Light colour 3000K warm white or 6500K daylight white.  
Luminous flux: 85Lm  
For surface-mounted or recessed luminaires.  
With pins to replace G4 pin-base lamps.  
Connected voltage 12V DC or AC/ 1.2W.  
A 12V magnetic transformer or LED power supply is required for operation.  
Dimmable only in combination with a dimmable 12V LED driver.  
Beam angle 360  
Length 34mm  
Ø 13mm  
Minimum order quantity: 10 pcs.  
Z-LED-G4-01



**LED lamp 12V G4 white 3W(20W)**

SMD LED lamp instead of halogen lamp 20W with G4 base. Radiation all around  
Z-LED-G4-02

## LED Lamps G9



**LED Lamp G9 4W (40W)**

Replaces G9 halogen lamp 2-pin, light colour 830 warm white 3000K  
Z-LED-G94

## LED Lamps G53



**LED Energy Saving Lamp GX53, 5W**



GX53 LED energy-saving lamp, operating voltage 230V / 4 to 5 Watt  
Z-LED-GX535

Base GX53.

Luminous intensity: 320 Lm, comparable to 20 Watt incandescent light.  
30000 h

Light colour 3000K warm white

Connected voltage 230V

(no ballast required)

Dimensions: Ø 75 mm, H 14mm

Weight: 0,1 kg

## LED lamps MR16 and GU5.3



**LED MR16 Lamp 24V 5W**

Spotlight lamp Power LEDs for 24 volts, 5 Watt, base G5.3  
Only available to commercial customers.

Extremely bright version with high-power LED.

Suitable for bus, train, truck, machinery, medical luminaires.

Light colour white

Luminous flux 430 lm

Total power 5 Watt

Light emission 30

Average life 50,000 hours

Supply voltage 24V DC

Very low power consumption.

The brightness corresponds to about 50 Watt incandescent light.

Ø 50 mm

Sale only to trade or business.

This special article is only available in packaging units of 10 pieces.

Z-LED-M24-5



**LED Lamp High-Power MR16 3W DC**

3W LED reflector lamp with aluminium reflector silver, 12V DC, G5.3 base

Extremely bright version with high-power LED 3 Watt.

Light beam 40°.

Average life 50,000 hours.

Very low power consumption.


The brightness corresponds to about 35 watts of incandescent light.


Operation only via 12V DC voltage, e.g. LED power supply - not via magnetic transformer.



Light colour 2700K (warm white),



Ø 50 mm, height 45.2mm

Z-LED-MDC3






	<p><b>COB LED Lamp MR16 3W</b></p>	<p>Spotlight lamp 3 Watt Power LED 12V with aluminium reflector, without lens, thus uniform light spot without spots, without edge discolouration. Base G5.3 Extremely bright version with high-power LED. Light colour white Luminous flux 250 lm Total output 3 watts Light beam 40 Average life 50,000 hours Connected voltage 12V DC or AC Operation on AC or DC voltage possible. Very low power consumption. The brightness corresponds to about 25 watts of incandescent light. Housing colour white Dimension: Ø 50 mm Ambient temperature -30°C ... +50°C Available in white or warm white. Overvoltage and high temperatures can destroy LED lamps! Make sure that the operating voltage is not exceeded. Electronic transformers often have a minimum power range of 10 watts and are therefore not suitable. Make sure there is sufficient ventilation. LED lamps cannot be exchanged. Only available in packs of 10. Z-LED-MR2</p>
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	<p><b>COB LED 24V DC Lamp MR16 5W</b></p> <p>COB LED spotlight lamp for 24V DC battery or AC, for train, bus, ship or machinery. 5 Watt, base G5.3 Minimum order quantity: 10 pcs.</p>	<p>Extremely bright version with high-power LED. energy saving replacement for 35W or 50W halogen lamp G5.3</p> <p>Light colour 3000K warm white Luminous flux 360 lm Total output 5 watts Light emission 36 deg Average life 50,000 hours Supply voltage 18 - 28V DC or AC Operation on AC or DC voltage possible. Very low power consumption. Housing colour white Dimension: Ø 50 mm</p> <p>Overvoltage and high temperatures can destroy LED lamps! Make sure that the operating voltage is not exceeded. Electronic transformers often have a minimum power range of 10 watts and are therefore not suitable. Make sure there is sufficient ventilation. LED lamps cannot be exchanged. Z-LED-MX24</p>
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	<p><b>High-Power LED Lamp 3W MR16 Alu</b></p> 	<p>Reflector lamp 3 Watt Power LEDs 12V, base G5.3 Z-LED-MX3</p> <p>Extremely bright version with high-power LED. Light emission 30 Luminous flux: 230 lm Average life 50,000 hrs. Can be operated on AC or DC voltage. Voltage 12V DC or AC Total power 3 Watt Very low power consumption. The brightness corresponds to about 20 watts of incandescent light. Dimensions: Ø 50 mm Weight: 0,025 kg</p>
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	<p><b>High-Power LED Lamp 3W MR16 Red</b></p> 	<p>Reflector lamp 3 Watt Power LEDs 12V, base G5.3 with red LED Z-LED-MX3R</p> <p>Extremely bright version with high-power LED. Light emission 30 Luminous flux: 230 lm Average life 50,000 hrs. Can be operated on AC or DC voltage. Voltage 12V DC or AC Total power 3 Watt Very low power consumption. The brightness corresponds to about 20 watts of incandescent light. Dimensions: Ø 50 mm Weight: 0,025 kg</p>
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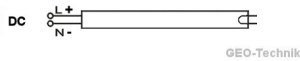
	<p><b>Power LED Spot Lamp 3 Watt MR16</b></p> 	<p>Spotlight lamp 3 Power LEDs 1 Watt = 3 Watt 12V AC or DC, base G5.3, 30 degree Z-LED-MX4</p> <p>Extremely bright version with 3 high-power LEDs. Light emission: 30 Luminous flux: 280 lm Replaces a 20 Watt halogen lamp. Light colour: 4000K White, very natural light, without spots. Average life 20,000 hours. Connected voltage 12V DC or AC Can be operated on AC or DC voltage. Total power: 3 Watt Very low power consumption. Dimensions: Ø 50 mm Weight: 0,05 kg</p>
	<p><b>Power LED COB Lamp MR16 5W</b></p>	<p>Spotlight lamp 5 Watt Power LEDs 12V AC or DC, base G5.3 Extremely bright version with high-power LED. Light colour: 3000K warm white or 4000K natural white. Luminous flux: 320 - 484 lm Total output 5 watts Light emission 40 Optionally available: Metal housing with 3 lenses or glass housing with 1 COB LED Average life 30,000 hours Connected voltage 12V DC or AC Operation on AC or DC voltage possible. Very low power consumption. The brightness corresponds to about 40 Watt incandescent light. Length: 45 mm Diameter: Ø 50 mm Ambient temperature -30°C ... +50°C Available in white, red, yellow, green, blue or warm white. Make sure that the operating voltage is not exceeded. Electronic transformers often have a minimum power range of 10 watts and are therefore not suitable. Make sure there is sufficient ventilation. LED lamps are excluded from exchange. Z-LED-MX5</p>
	<p><b>Power LED COB Lamp MR16 5W</b></p>	<p>Spotlight dimmable LED reflector lamp 5 Watt Power LEDs 12V AC or DC, G5.3 base Extremely bright version with high-power LED. Light colour: 3000K warm white or 4000K natural white. Luminous flux: 450 lm Total output: 5 watts Light emission: 40 Optionally available: Glass housing with 1 COB LED Average life 30,000 hours Connected voltage 12V DC or AC Operation on AC or DC voltage possible. Very low power consumption. The brightness corresponds to about 40 Watt incandescent light. Dimensions: Ø 50 mm, length 56mm Z-LED-MX5D</p>
	<p><b>High-Power LED Lamp 6 Watt MR16</b></p>	<p>Spotlight with 6 Watt Power LED 12V AC or DC, G5.3 base - wide beam. Extremely bright version with high-power LED. Total power 6 Watt. Light emission 120°. Luminous flux 490 lm White, very natural light, without spots. Light colour warm white 3000K, neutral white 4000K Average life: 25,000 hrs. Connected voltage 12V DC or AC Operation on AC or DC voltage possible. Very low power consumption. Corresponds approximately to the luminous intensity of a 40 Watt reflector lamp. Energy efficiency class: D Dimensions: Ø 50mm x length 52 mm Z-LED-MX6</p>

**LED Tubes T8**



**LED Tube for Train 24V DC T6,  
212mm 5W**

LED-Röhre T8 Anschluss



Vibration proof LED Tube fluorescent tube 212mm, 5 Watt for 12 Volt and 24 Volt DC.

For railway, ship, emergency lighting and battery operation.

**Sale to trade or industry only. Installation may only be carried out by a qualified electrician.**

Z-LED-T5-02B

Powerful LED lamp as replacement against fluorescent tubes - bright LED tube.

Very bright by high flux SMD LED.

Advantages of LED tube lamps against the old fluorescent tubes: Low power consumption, very long life time, high brightness, contains no toxic elements. LED tubes are maintenance free, which results in a fast amortisation.

This tube replaces a fluorescent tube TL 10W T5

Rated life: 25000 h - more than 11 years.

Luminous flux: 600 lm

Light colour: 4000K pure white 840 ( at 50 pcs. on request with 3000K warm white or 6500K daylight)

Wide beam spread: 120°

Matted diffusor (on request in clear available)

Operating voltage: 12V and 24V DC (10V - 28V) - not for mains voltage !

The electrical connection is made at one end of the tube. The other end is bridged.

Reverse polarity protected: +- can be reversed

Power: 5 watt

Easy exchange at lighting fixtures with magnetic ballast.

Only the ignitor has to be removed. Than the old tube has to be taken out and replaced by the new LED tube.

Not suitable for fixtures with electronic ballast !

Socket: T8, G13 - like standard fluorescent tubes.

Material: aluminium / polycarbonate

Diameter: 22 mm

Standards: TÜV, CE, EMC, ETL, SAA, GS, FCC und RoHS, CEI, EN 55015:2013, EN 61000-3-2:2014, EN 61000-3-3:2013,

EN 61547:2009, EN 62776:2015, EN 62471:2008, EN 62493:2015, EN 45545 ( R24) fire protection

**Sale to trade or industry only. Installation may only be carried out by a qualified electrician.**

Weight: 0,2 kg



## LED Tube T8, 12V-24V DC 600mm 2 Ft 9W

LED-Röhre T8 Anschluss



LED fluorescent tube 24 Volt DC, 600mm, 10 Watt.  
Tube for coach, truck, ship, emergency lighting and battery operation.  
Sale only to trade / industry.  
Z-LED-T8-15

Bright LED lamp as a fluorescent tube replacement with high efficiency. This bright LED tube achieves the same brightness as the previous T8 fluorescent tubes.

Advantages of the LED tube compared to the old fluorescent tubes are the low power consumption, very long burning time and high light output.

LED tubes are also practically maintenance-free, which reduces the amortisation period and maintenance costs.

Lifetime 50000 hrs - corresponds to about 20 years, during which you save a lot of electricity and do not have to change lamps.

LED tube 60cm ( 170 SMD LED) replaces TL 18W T8,  
Luminous flux: 1050 lm  
Light colour: 4000K white ( from 50 pcs. also available in 3000K or 6000K daylight)  
Colour rendering: Ra > 80  
Wide beam angle: 180 deg  
Power consumption: 10 Watt  
Operating voltage: 12V and 24V DC (10V - 28V) - not for mains voltage !

The electrical connection is made at one end of the tube. The other end is bridged.

Reverse polarity protected: +- can be reversed

Base: T8, G13 - like standard fluorescent lamps

Material: Aluminium and cover milky polycarbonate

Approvals: TÜV, CE, EMC and RoHS, CEI EN 62776.

**Sale to trade or industry only. Installation may only be carried out by a qualified electrician.**

Weight: 0,19 kg



## LED Tube T8, 600mm 2Ft 8W (18W)

Energy-saving, bright SMD LED fluorescent tube 8 Watt replaces 18W tubes G13.

Bright LED lamp as a fluorescent tube replacement with high efficiency. This bright LED tube achieves the same brightness as the previous T8 fluorescent tubes.

Advantages of LED tube lamps compared to the old fluorescent tubes are the low power consumption, very long burning time, high luminous efficacy and the fact that no toxic and environmentally harmful gases, such as mercury vapour, are needed in the production of the LED fluorescent tube. LED tubes are also practically maintenance-free, which reduces amortisation costs and maintenance costs.

LED tube 60cm replaces TL 18W T8 740 or 840

Quick replacement for luminaires with magnetic ballast (CCG or CCG).

Only the starter has to be replaced by a starter bridge, then simply insert the LED tube instead of the old fluorescent tube.

Not suitable for luminaires with ECG or luminaires in tandem circuit !

Installation should only be carried out by a qualified electrician.

Lifetime: 26000 hours - corresponds to about 11 years, during which you save a lot of electricity and do not have to change lamps.

Annual electricity cost saving 52.6 kW at 12 hrs. daily / 0.16 Eur = 8.41 Euro per tube

Luminous flux: 1000 lm  
Light colour: 4500K white (on special order from 10 pcs. also 3000K warm white or 6000K daylight)  
Wide beam angle: 180 deg  
Operating voltage: 85V - 230V AC  
Power consumption: 9 Watt  
Base: T8, G13 - like standard fluorescent lamps  
Length: 600mm  
Material: Matt aluminium and polycarbonate  
Approvals: TÜV, CE, EMC and RoHS, CEI EN 62776  
Z-LED-T8-17



**LED Tube T8, 600mm 2Ft  
Professional 8-10W (18W)**

Energy-saving, bright and long-lasting SMD LED fluorescent tube 8-10 Watt replaces 18W tubes G13.

Bright LED lamp as a fluorescent tube replacement with high efficiency. This bright LED tube achieves the same brightness as the previous T8 fluorescent tubes.

Advantages of LED tube lamps compared to the old fluorescent tubes are the low power consumption, very long burning time, high luminous efficacy and the fact that no toxic and environmentally harmful gases, such as mercury vapour, are needed in the production of the LED fluorescent tube.

LED tubes are also practically maintenance-free, which reduces amortisation costs and maintenance costs.

LED tube 60cm replaces TL 18W T8 740 or 840

Quick replacement for luminaires with magnetic ballast (CCG or CCG). Only the starter has to be replaced by a starter bridge, then simply insert the LED tube instead of the old fluorescent tube.

Not suitable for luminaires with ECG or luminaires in tandem circuit ! Installation should only be carried out by a qualified electrician.

Lifetime: 26000 hours - corresponds to about 11 years, during which you save a lot of electricity and do not have to change lamps.

Annual electricity cost saving 52.6 kW at 12 hrs. daily / 0.16 Eur = 8.41 Euro per tube

Luminous flux: 1250 lm

Light colour: 4500K white (on special order from 10 pcs. also 3000K warm white)

Wide beam angle: 180 deg

Operating voltage: 85V - 230V AC

Power consumption: 10 Watt

Base: T8, G13 - like standard fluorescent lamps

Length: 600mm

Material: Frosted glass

Approvals: TÜV, CE, EMC and RoHS, CEI EN 62776

Z-LED-T8-18



**LED Tube T8, 1200mm 4Ft  
12V-24V DC 18W G13**

LED-Röhre T8 Anschluss



Bright LED Tube fluorescent tube 1200mm, 18 Watt for 12 Volt and 24 Volt DC.

For truck, bus, ship, emergency lighting and battery operation.

**Sale to trade or industry only. Installation may only be carried out by a qualified electrician.**

Z-LED-T8-35

Powerful LED lamp as replacement against fluorescent tubes - bright LED tube.

Very bright by high flux SMD LED.

Advantages of LED tube lamps against the old fluorescent tubes: Low power consumption, very long life time, high brightness, contains no toxic elements. LED tubes are maintenance free, which results in a fast amortisation.

This tube replaces a fluorescent tube TL 36W T8

Rated life: 25000 h - more than 20 years.

Luminous flux: 2000 lm

Light colour: 4500K pure white ( at 50 pcs. on request with 3000K warm white or 6500K daylight)

Wide beam spread: 180°

Matted diffusor (on request in clear available)

Operating voltage: 12V and 24V DC (10V - 28V) - not for mains voltage !

The electrical connection is made at one end of the tube. The other end is bridged.

Reverse polarity protected: +- can be reversed

Power: 18 watt

Easy exchange at lighting fixtures with magnetic ballast.

Only the ignitor has to be removed. Than the old tube has to be taken out and replaced by the new LED tube.

Not suitable for fixtures with electronic ballast !

Socket: T8, G13 - like standard fluorescent tubes.

Material: Glass / aluminium

Length: 1200 mm

Diameter: 28 mm

Standards: TÜV, CE, EMC, ETL, SAA, GS, FCC und RoHS, CEI, EN 55015:2013, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61547:2009, EN 62776:2015, EN 62471:2008, EN 62493:2015

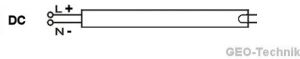
**Sale to trade or industry only. Installation may only be carried out by a qualified electrician.**

Weight: 0,2 kg



## LED Tube for Train 24V DC T8, 1200mm 4Ft 18W

LED-Röhre T8 Anschluss



Vibration proof LED Tube fluorescent tube 1200mm, 18 Watt for 12 Volt and 24 Volt DC.

For railway, ship, emergency lighting and battery operation.

**Sale to trade or industry only. Installation may only be carried out by a qualified electrician.**

Z-LED-T8-35B

Powerful LED lamp as replacement against fluorescent tubes - bright LED tube.

Very bright by high flux SMD LED.

Advantages of LED tube lamps against the old fluorescent tubes: Low power consumption,

very long life time, high brightness, contains no toxic elements.

LED tubes are maintenance free, which results in a fast amortisation.

This tube replaces a fluorescent tube TL 36W T8

Easy exchange at lighting fixtures. All kind of ballast or ignitors have to be removed from the lighting fixture.

The direct operation on 12V or 24V dc voltage is required.

Rated life: 35000 h - more than 20 years.

Luminous flux: 2160 lm

Light colour: 4000K pure white 840 ( at 50 pcs. on request with 3000K warm white or 6500K daylight)

Wide beam spread: 180°

Matted diffusor (on request in clear available)

Operating voltage: 12V and 24V DC (10V - 28V) - not for mains voltage !

The electrical connection is made at one end of the tube. The other end is bridged.

Reverse polarity protected: +- can be reversed

Power: 18 watt

Socket: T8, G13 - like standard fluorescent tubes.

Material: aluminium / polycarbonate

Length: 1200 mm

Diameter: 28 mm

Standards: TÜV, CE, EMC, ETL, SAA, GS, FCC und RoHS, CEI, EN 55015:2013, EN 61000-3-2:2014,

EN 61000-3-3:2013, EN 61547:2009, EN 62776:2015, EN 62471:2008, EN 62493:2015,

EN 45545 ( R24) fire protection

**Sale to trade or industry only. Installation may only be carried out by a qualified electrician.**

Weight: 0,2 kg



**LED Tube T8, 1200mm  
Professional 4Ft 18W (36W)**

Energy-saving, bright LED fluorescent tube 18 W replaces 36 W tubes G13. Bright LED lamp as a fluorescent tube replacement with high efficiency. This bright LED tube achieves the same brightness as the previous T8 fluorescent tubes.

Advantages of LED tube lamps compared to the old fluorescent tubes are the low power consumption, very long burning time, high luminous efficacy and the fact that no toxic and environmentally harmful gases, such as mercury vapour, are needed in the production of the LED fluorescent tube. LED tubes are also virtually maintenance-free, which reduces amortisation costs and maintenance costs.

About 8.5 years, during which you save a lot of electricity and do not need to change lamps.

Annual electricity cost saving 96kW at 12 hrs. daily / 0,16 Eur = 15,42 Euro per tube.

LED tube 120cm ( 342 LED) replaces TL 36W T8,

Luminous flux: 2300 lm

Light colour: 4500K white (on special order from 5 pcs. also 6000K daylight)

Wide beam angle: 180 deg

Lifetime 25000 hrs

Tube: frosted (on special request also available clear)

Operating voltage: 85V - 230V AC

Power consumption: 18 Watt

Not suitable for luminaires with electronic ballast !

Base: T8, G13 - like standard fluorescent lamps

Material: aluminium and glass

Approvals: TÜV, CE, EMC and RoHS, CEI EN 62776

Quick replacement for luminaires with magnetic ballast (CCG or CCG).

Only the starter has to be replaced by a starter bridge, then simply insert the LED tube instead of the old fluorescent tube.

Installation should only be carried out by a qualified electrician.

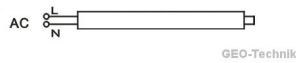
LED fluorescent tubes can only be shipped as bulky goods - the surcharge is 17 euros once or by collection.

Z-LED-T8-36



## LED Tube for Railway 100Hz T8, 1200mm 4Ft 18W

LED-Röhre T8 Anschluss



Energy-saving, protected LED fluorescent tube for railway use.  
18 W replaces 36 W tubes G13.  
Z-LED-T8-36B

Bright LED lamp as a fluorescent tube replacement with high efficiency.  
This bright LED tube achieves the same brightness as the previous T8 fluorescent tubes.

Advantages of LED tube lamps compared to the old fluorescent tubes are the low power consumption, very long burning time, high luminous efficacy and the fact that no toxic and environmentally harmful gases, such as mercury vapour, are needed in the production of the LED fluorescent tube. LED tubes are also virtually maintenance-free, which reduces amortisation costs and maintenance costs.

About 8.5 years, during which you save a lot of electricity and do not need to change lamps.

Annual electricity cost saving 96kW at 12 hrs. daily / 0,16 Eur = 15,42 Euro per tube.

LED tube 120cm ( 342 LED) replaces TL 36W T8,

Luminous flux: 2160 lm

Light colour: 4000K white 840 (on special order from 5 pcs. also 6000K daylight)

Wide beam angle: 180 deg

Lifetime 35000 hrs

Tube: Frosted (on special request also available clear)

Operating voltage: 85V - 265V AC

Frequenz: 50Hz ... 100Hz

Power consumption: 18 Watt

Base: T8, G13 - like standard fluorescent lamps

Material: aluminium / polycarbonate

Diameter: 28 mm

Approvals: TÜV, CE, EMC and RoHS, CEI EN 62776, EN 45545 ( R24) fire protection

Quick replacement for luminaires with magnetic ballast (CCG or CCG).

Only the starter has to be replaced by a starter bridge, then simply insert the LED tube instead of the old fluorescent tube.

If there is an ECG in the luminaire, it must be disconnected.

Installation should only be carried out by a qualified electrician.

LED fluorescent tubes can only be shipped as bulky goods - the surcharge is 17 euros once or by collection.

Weight: 0,2 kg





## LED Tube T8, 1200mm 4Ft 18W (36W)

Energy-saving, bright LED fluorescent tube 18 W replaces 36 W tubes G13. Bright LED lamp as a fluorescent tube replacement with high efficiency. This bright LED tube achieves the same brightness as the previous T8 fluorescent tubes.

Advantages of LED tube lamps compared to the old fluorescent tubes are the low power consumption, very long burning time, high luminous efficacy and the fact that no toxic and environmentally harmful gases, such as mercury vapour, are needed in the production of the LED fluorescent tube. LED tubes are also virtually maintenance-free, which reduces amortisation costs and maintenance costs.

About 8.5 years, during which you save a lot of electricity and do not need to change lamps.

Annual electricity cost saving 96kW at 12 hrs. daily / 0,16 Eur = 15,42 Euro per tube.

LED tube 120cm ( 342 LED) replaces TL 36W T8,

Luminous flux: 1900 lm

Light colour: 4500K white (on special order from 5 pcs. also 6000K daylight)

Wide beam angle: 180 deg

Lifetime: 25000 hours

Tube: frosted (on special request also available clear)

Operating voltage: 85V - 230V AC

Power consumption: 18 Watt

Not suitable for luminaires with electronic ballast !

Base: T8, G13 - like standard fluorescent lamps

Material: aluminium and glass

Approvals: TÜV, CE, EMC and RoHS, CEI EN 62776

Quick replacement for luminaires with magnetic ballast (CCG or CCG).

Only the starter has to be replaced by a starter bridge, then simply insert the LED tube instead of the old fluorescent tube.

Installation should only be carried out by a qualified electrician.

LED fluorescent tubes can only be shipped as bulky goods - the surcharge is 17 euros once or by collection.

Z-LED-T8-37



## LED Tube T8, 1200mm 14W Saving 4Ft 2100Lm

Energy-saving, bright LED fluorescent tube 14 W replaces 36 W tubes G13. Bright LED lamp as a fluorescent tube replacement with high efficiency. This bright LED tube achieves the same brightness as the previous T8 fluorescent tubes.

Advantages of LED tube lamps compared to the old fluorescent tubes are the low power consumption, very long burning time, high luminous efficacy and the fact that no toxic and environmentally harmful gases, such as mercury vapour, are needed in the production of the LED fluorescent tube. LED tubes are also virtually maintenance-free, which reduces amortisation costs and maintenance costs.

About 8.5 years, during which you save a lot of electricity and do not need to change lamps.

Annual electricity cost saving 96kW at 12 hrs. daily / 0,16 Eur = 15,42 Euro per tube.

LED tube 120cm ( 342 LED) replaces TL 36W T8,

Luminous flux: 2100 lm

Light colour: 4000K white (on special order from 10 pcs. also 6000K daylight)

Wide beam angle: 180 deg

Lifetime 50000 hrs

Tube: frosted (on special request also available clear)

Operating voltage: 220V - 240V AC

Power consumption: 14 Watt

Not suitable for luminaires with electronic ballast !

Base: T8, G13 - like standard fluorescent lamps

Material: aluminium and glass

Approvals: TÜV, CE, EMC and RoHS, CEI EN 62776

Quick replacement for luminaires with magnetic ballast (CCG or CCG).

Only the starter has to be replaced by a starter bridge, then simply insert the LED tube instead of the old fluorescent tube.

Installation should only be carried out by a qualified electrician.

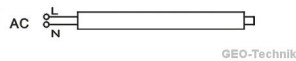
LED fluorescent tubes can only be shipped as bulky goods - the surcharge is 17 euros once or by collection.

Z-LED-T8-39



## LED Tube T8 with PIR Sensor 1500mm (58W)

LED-Röhre T8 Anschluss



Energy-saving, bright LED fluorescent tube with IR presence detector. Automatic light in warehouse, corridor or cellar. For replacement in luminaires with magnetic ballast (with starter). This 23W tube replaces 58W fluorescent tube 1500mm G13. For sale to trade / industry only. Z-LED-T8-50

Light-intensive LED lamp as a fluorescent tube replacement with high efficiency. This super-bright LED tube achieves a greater brightness than the previous T8 fluorescent tubes.

Advantages of LED tube lamps compared to the old fluorescent tubes are the low power consumption, very long burning time, high luminous efficacy and the fact that no toxic and environmentally harmful substances, such as mercury, are needed in the production of the LED fluorescent tube. LED tubes are also practically maintenance-free, which reduces amortisation costs and maintenance costs.

LED tube 1500mm replaces TL 58W T8, Easy replacement of luminaires with magnetic ballast ( VVG or KVG ). With the old luminaire, only the starter has to be replaced by the starter bridge supplied !

With integrated IR sensor, range 5-8 metres. Illumination only when a person is present, for approx. 1 minute.

Lifetime: 50000 hrs. - corresponds to about 20 years, during which you save a lot of electricity and do not have to change lamps.

Annual electricity cost savings approx. 90%.

Luminous flux: 2800 lm

Light colour: 4000K white (on special order also 6000K daylight or 3000K warm tone)

Colour rendering index Ra: > 85

Wide beam angle: 180 deg

Tube surface milky

Operating voltage: 85V - 260V AC

Power consumption: 24W

Ambient temperature: -25°C to 50°C

Base: T8, G13 - like standard fluorescent lamps

Material: Aluminium and polycarbonate

Approvals: TÜV, CE and RoHS

Minimum order quantity: 25 pcs.

LED fluorescent tubes can only be shipped as bulky goods - the surcharge is 29,75 Euro or by collection.

Weight: 0,43 kg



**LED Tube T8, 1500mm 5Ft 22W  
(58W)**

Energy-saving, bright SMD LED tube 23W replaces 58 W fluorescent tube G13.

Light-intensive LED lamp as a fluorescent tube replacement with high efficiency.

This super-bright LED tube achieves a greater brightness than the previous T8 fluorescent tubes.

Advantages of LED tube lamps compared to the old fluorescent tubes are the low power consumption, very long burning time, high luminous efficacy and the fact that no toxic and environmentally harmful substances, such as mercury, are needed in the production of the LED fluorescent tube. LED tubes are also practically maintenance-free, which reduces amortisation costs and maintenance costs.

Approximately 8.5 years, during which you save a lot of electricity and do not need to change lamps.

Annual electricity cost saving 178.7kW at 12 hrs. daily / 0.16 Eur = 28.59 Euro per tube.

LED tube 1500mm (432 LED) replaces TL 58W T8,

Luminous flux: 2200 lm

Light colour: 4500K white (on special order from 5 pcs. also 6000K daylight)

Wide beam angle: 180 deg

Lifetime 26000 hrs

Tube: frosted

Operating voltage: 85V - 230V AC

Power consumption: 24 Watt

Base: T8, G13 - like standard fluorescent lamps

Material: aluminium and glass

Approvals: TÜV, CE, EMC and RoHS, CEI EN 62776

Problem-free replacement for luminaires with magnetic ballast (CCG or CCG).

Only the starter has to be replaced by a starter bridge, then simply insert the LED tube instead of the old fluorescent tube.

Installation should only be carried out by a qualified electrician.

Not suitable for luminaires with electronic ballast !

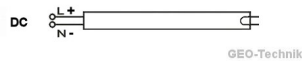
LED fluorescent tubes can only be shipped as bulky goods - the surcharge is 17 euros once or by collection.

Z-LED-T8-56



## LED Tube T8, 1500mm 5Ft 12V-24V DC 24W

LED-Röhre T8 Anschluss



Bright LED Tube fluorescent tube 1500mm, 23 Watt for 12 Volt and 24 Volt DC.

For railway, ship, emergency lighting and battery operation.

**Sale to trade or industry only. Installation may only be carried out by a qualified electrician.**

Z-LED-T8-57

Light-intensive LED lamp as a fluorescent tube replacement with high efficiency.

This super-bright LED tube achieves a greater brightness than the previous T8 fluorescent tubes.

Advantages of LED tube lamps compared to the old fluorescent tubes are the low power consumption, very long burning time, high luminous efficacy and the fact that no toxic and environmentally harmful substances, such as mercury, are needed in the production of the LED fluorescent tube. LED tubes are also practically maintenance-free, which reduces amortisation costs and maintenance costs.

Approximately 8.5 years, during which you save a lot of electricity and do not need to change lamps.

Annual electricity cost saving 178.7kW at 12 hrs. daily / 0.16 Eur = 28.59 Euro per tube.

LED tube 1500mm (432 LED) replaces TL 58W T8,

Luminous flux: 2400 lm

Light colour: 4500K white (on special order from 5 pcs. also 6000K daylight)

Wide beam angle: 180 deg

Lifetime 50000 hrs

Tube: frosted

Operating voltage: 85V - 230V AC

Power consumption: 22 Watt

Base: T8, G13 - like standard fluorescent lamps

Material: Aluminium and polycarbonate

Approvals: TÜV, CE, EMC, ETL, SAA, GS, FCC und RoHS, CEI, EN 55015:2013, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61547:2009, EN 62776:2015, EN 62471:2008, EN 62493:2015

Problem-free replacement for luminaires with magnetic ballast (CCG or CCG).

Only the starter has to be replaced by a starter bridge, then simply insert the LED tube instead of the old fluorescent tube.

Installation should only be carried out by a qualified electrician.

Not suitable for luminaires with electronic ballast !

LED fluorescent tubes can only be shipped as bulky goods - the surcharge is 17 euros once or by collection.

Weight: 0,4 kg



**LED Tube T8, 1500mm 5Ft 22W  
(58W)**

Energy-saving, bright SMD LED tube 23W replaces 58 W fluorescent tube G13.

Light-intensive LED lamp as a fluorescent tube replacement with high efficiency.

This super-bright LED tube achieves a greater brightness than the previous T8 fluorescent tubes.

Advantages of LED tube lamps compared to the old fluorescent tubes are the low power consumption, very long burning time, high luminous efficacy and the fact that no toxic and environmentally harmful substances, such as mercury, are needed in the production of the LED fluorescent tube. LED tubes are also practically maintenance-free, which reduces amortisation costs and maintenance costs.

Approximately 8.5 years, during which you save a lot of electricity and do not need to change lamps.

Annual electricity cost saving 178.7kW at 12 hrs. daily / 0.16 Eur = 28.59 Euro per tube.

LED tube 1500mm (432 LED) replaces TL 58W T8,

Luminous flux: 2200 lm

Light colour: 4500K white (on special order from 5 pcs. also 6000K daylight)

Wide beam angle: 180 deg

Lifetime 26000 hrs

Tube: frosted

Operating voltage: 85V - 230V AC

Power consumption: 24 Watt

Base: T8, G13 - like standard fluorescent lamps

Material: aluminium and glass

Approvals: TÜV, CE, EMC and RoHS, CEI EN 62776

Problem-free replacement for luminaires with magnetic ballast (CCG or CCG).

Only the starter has to be replaced by a starter bridge, then simply insert the LED tube instead of the old fluorescent tube.

Installation should only be carried out by a qualified electrician.

Not suitable for luminaires with electronic ballast !

LED fluorescent tubes can only be shipped as bulky goods - the surcharge is 17 euros once or by collection.

Z-LED-T8-58



## LED Tube T8, E-Ballast 1500mm 23W (58W) G13

LED-Röhre T8 Anschluss



Energy-saving, bright LED tube for replacement in luminaires with electronic ballast (without starter).

This 23W tube replaces 58W fluorescent tube 1500mm G13.

Only available to trade / industry.

Z-LED-T8-58E

Light-intensive LED lamp as a fluorescent tube replacement with high efficiency.

This super-bright LED tube achieves a greater brightness than the previous T8 fluorescent tubes.

Advantages of LED tube lamps compared to the old fluorescent tubes are the low power consumption, very long burning time, high luminous efficacy and the fact that no toxic and environmentally harmful substances, such as mercury, are needed in the production of the LED fluorescent tube. LED tubes are also practically maintenance-free, which reduces amortisation costs and maintenance costs.

Easy replacement of luminaires with electronic ballasts (EBs, EBs or CCGs). Nothing has to be changed on the luminaire or the electronic ballast.

For old luminaires with magnetic ballast, the starter must be replaced by the supplied starter bridge !

LED tube 1500mm (432 LED) replaces TL 58W T8,

Lifetime: 50000 hrs - corresponds to about 20 years in which you save a lot of electricity and do not have to change lamps.

Annual electricity cost saving 178,7kW at 12 hrs. daily / 0,16 Eur = 28,59

Euro per tube

Luminous flux: 3000 lm

Light colour: 4500K white (on special order also 6000K daylight or 3000K warm tone)

Colour rendering index Ra: > 85

Wide beam angle: 180 deg

Standard version frosted

Operating voltage: 85V - 260V AC

Power consumption: 23W

Ambient temperature: -25°C to 55°C

Base: T8, G13 - like standard fluorescent lamps

Material: aluminium and polycarbonate

Approvals: TÜV, CE and RoHS

Minimum order quantity: 25 pcs.

LED fluorescent tubes can only be shipped as bulky goods - the surcharge is 29,75 Euro or by collection.

Weight: 0,4 kg



## Bright LED Tube T8, 1500mm 5Ft 24W (58W)

Energy-saving, very bright SMD LED tube 24W replaces 58 W fluorescent tube G13 and is significantly brighter.

Light-intensive LED lamp as a fluorescent tube replacement with high efficiency.

This super-bright LED tube achieves a greater brightness than the previous T8 fluorescent tubes.

Advantages of LED tube lamps compared to the old fluorescent tubes are the low power consumption, very long burning time, high luminous efficacy and the fact that no toxic and environmentally harmful substances, such as mercury, are needed in the production of the LED fluorescent tube. LED tubes are also practically maintenance-free, which reduces amortisation costs and maintenance costs.

Problem-free replacement for luminaires with magnetic ballast (CCG or CCG).

Only the starter needs to be replaced by a starter bridge, then simply insert the LED tube instead of the old fluorescent tube.

Installation should only be carried out by a qualified electrician.

Not suitable for luminaires with electronic ballast !

LED tube 1500mm (432 LED) replaces TL 58W T8,

Lifetime: 30000 hours - corresponds to about 12 years, during which you save a lot of electricity and do not have to change lamps.

Annual electricity cost saving 178,7kW at 12 hrs./ 0,16 Eur = 28,59 Euro per tube

Luminous flux: 3000 lm

Light colour: 4000K natural white

Wide beam angle: 180 deg

Standard finish frosted

Operating voltage: 85V - 230V AC

Power consumption: 24 Watt

Base: T8, G13 - like standard fluorescent lamps

Material: aluminium and glass

Minimum order quantity 4 pcs.

LED fluorescent tubes can only be shipped as bulky goods - the surcharge is 29,75 Euro or by collection.

The tube has TÜV, CE, EMC and RoHS certificates.

Z-LED-T8-59



## LED Tube T8 Dimmable 150cm

LED-Röhre T8 Anschluss



Energy saving bright 23W SMD dimmable LED tubes replace 58W fluorescent lamps.

Minimum order quantity from 25 pcs.  
Z-LED-T8-72

Light-intensive LED lamp as a fluorescent tube replacement with high efficiency.

This super-bright LED tube achieves a greater brightness than the previous T8 fluorescent tubes.

Advantages of LED tube lamps compared to the old fluorescent tubes are the low power consumption, very long burning time, high luminous efficacy and the fact that no toxic and environmentally harmful substances, such as mercury, are needed in the production of the LED fluorescent tube. LED tubes are also practically maintenance-free, which reduces amortisation costs and maintenance costs.

Lifetime 50000 hrs - equivalent to about 20 years, during which you save a lot of electricity and do not need to change lamps.

Annual electricity cost savings 169.9kW at 12 hrs. daily / 0.16 Eur = 27.19 Euro per tube

Luminous flux: 2400 lm, replaces TL 58W T8.

This LED tube can be dimmed with standard triac dimmers.

Please note the minimum load of the dimmer.

Control range: 10 - 100%

Light colour: 4500K white (on special order from 25 pcs. also 3000K warm white or 6000K daylight)

Wide beam angle: 125 deg

Frosted tube

Operating voltage: 85V - 230V AC

Power consumption: 23W

Base: T8, G13 - like standard fluorescent lamps

Material: plastic and aluminium.

Easy replacement for luminaires with magnetic ballast (KVG or VVG).

Not suitable for luminaires with electronic ballast !


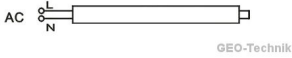


Only the starter has to be replaced by a starter bridge, then simply insert the LED tube instead of the old fluorescent tube.

Installation should only be carried out by a qualified electrician.



Sale only to trade / industry.

Weight: 0,3 kg




 <p><b>LED-Röhre T8 Anschluss</b></p>  <p>GEO-Technik</p>	<p><b>LED Tube T8 for low temperatures 600mm 8-10W (18W)</b></p>	<p>Cold proof, bright LED fluorescent tube for cooling zones, cold room or outdoor use at low temperatures. 600mm tube replaces 18W tubes G13. Z-LED-TK-18</p> <p>Bright LED lamp as a fluorescent tube replacement with high efficiency. This bright LED tube achieves the same brightness as the previous T8 fluorescent tubes. High luminous intensity due to wide-beam Power LED. Advantages of LED tube lamps compared to the old fluorescent tubes are the low power consumption, very long burning time, high luminous efficacy and the fact that no toxic and environmentally harmful gases, such as mercury vapour, are needed in the production of the LED fluorescent tube. LED tubes are also virtually maintenance-free, which reduces amortisation costs and maintenance costs. Annual electricity cost savings 52.6 kW at 12 hrs. daily / 0.16 Eur = 8.41 Euro per tube. LED tube 60cm (10W) replaces TL 18W T8</p> <p>Lifetime: 25000 hrs. - corresponds to about 8.5 years in which you save a lot of electricity and do not have to change the lamp. Luminous flux: 970 lm Light colour: 4500K white (on special order from 5 pcs. also 6000K daylight) Wide beam angle: 120 Standard version frosted (on special request also available clear) Operating voltage: 85V - 230V AC Power consumption: 10 Watt Temperature range: -25°C to + 35°C Quick replacement for luminaires with magnetic ballast (KVG or VVG). Only the starter has to be replaced by a starter bridge, then simply insert the LED tube instead of the old fluorescent tube. Not suitable for luminaires with ECG or luminaires in tandem circuit ! Installation should only be carried out by a qualified electrician. Base: T8, G13 - like standard fluorescent lamps Length: 600mm Material: Aluminium and polycarbonate. The tube has TÜV, CE, EMC and RoHS certificates. Weight: 0,23 kg</p>
	<p><b>LED Tube T8 for low temperatures 1200mm 18W (36W)</b></p>	<p>Cold proof, bright LED fluorescent tube for cold weather, cooling room or outdoor use at low temperatures. 1200mm tube replaces 36W tubes G13. Z-LED-TK-36</p>
	<p><b>LED Tube T8 Cold Proof 1500mm 22W (58W)</b></p>	<p>Energy-saving, bright LED tube for cold room or outdoor use at low temperatures. 1500mm tube replaces 58W tubes G13. Z-LED-TK-58</p>





## LED Lamps G53

	<p><b>LED Lamp AR111 11W 12V 8 Deg</b></p> 	<p>This 12V LED reflector lamp replaces 75W halogen lamps G53. Z-LED111-7</p> <p>Very intense brightness LED bulb. Beam angle: 8° 3000K warm white light color or neutral white 4000K. Luminous flux 2175 lux / 2880 Lux / 1m. Average life: 25 000 hours at 30% lumen maintenance. Operating voltage 12V AC or DC The lamp may only be used in lamps with magnetic transformer (iron core transformer). Ambient temperature -30 ° ... + 40 ° C Weight: 0,22 kg</p>
	<p><b>LED Lamp AR111 15W 12V</b></p>	<p>This 12V LED reflector lamp replaces 100W halogen lamps G53. Z-LED111-8</p>
	<p><b>LED Lamp AR111 10W 12V</b></p>	<p>This 12V LED reflector lamp replaces 75W halogen lamps G53. Z-LED111-9</p>


**Spare Parts For Spotlights**

	Front grill for Lival Exus luminaire	3 pieces, for one spotlight in white. Z-LI6090G
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**Accessories for indoor lights**

	Suspension for Fluorescent Fixture	Steel cable for suspension of louvre luminaires. Z-LIL2570S
	Suspension for LED Panel	Steel cable for suspension of LED ceiling panels. Z-LIL3202
	Interconnection cable for on-mount LED light bar	Connection of several LI-L4074 or LI-L4075 luminaires Z-LIL40742
	Aluminium Reflector for LP-51 AL	For LEG pendant light Z-LP51-AL
		Chain for Hang-Down Z-LPK1
		Chain for Hang-Down 20kg Z-LPK2
		S-Hook for Lamp Chain Z-LPK9

**Accessories for outdoor fixtures**

	Pole Bracket for Pix	Pole / bracket adapter for PIX light fixture Z-LS-150M
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**Spare Parts For Spotlights**

	Clear PC Refractor for LED Bowl	Z-LS001GLP
	Casing Cover for LEG ALTAIR Streetlight	Plstic housing cover for LEG Altair street lamp. Z-LS003-9
	Glass Refractor for LEG Altair Bowl	Glass cover replacement lens for street lamp LEG Alto, Altair, LS-ALT, LS-003 Z-LS003GLB
	Plain Glass for LEG Altair	Glass pane replacement lens for street lamp LEG Alto, Altair, LS-ALT, LS-003. From LEG Italy. Z-LS003GLF