






































































Pictograms of the table heads

 Notes, additions	 Rated power	 Type of socket	 Light intensity (lumen)
 T_c [K] Colour temperature (Kelvin)	 Substitution of compact fluorescent lamps	 Number of LED's (pcs)	 Energy efficiency class
 Substitution of traditional light bulbs	I_n Rated current (A)	 Substitution of metal halide lamps	 Substitution of halogen light bulbs
 Substitution of fluorescent tubes	 Delay time	 Column height and diameter (mm)	IP.. Protection degree
 Bridging time	 Number of clips	 Lifespan	$\eta\%$ Efficiency
 Light flux, illumination (lux)	 Electric capacity (μF)	 Colour of cover	pcs Packing
 Cutting size (mm)	 side protective contacts	 Light beam angle ($^\circ$)	 Dimensions (L x W x H)
 Rotating lamp body	 Battery capacity (Ah)	 male protective contact	 Colour
 Primary current	 Upper secondary voltage limit	 Battery voltage (V)	 Battery type
U_n Raged voltage (V)			

Pictograms of the technical data

 90-265 V AC Raged voltage (V)	 Protection class: I.	 Protection class: II.	 Protection class: III.
 Lamp bodies to be installed on ceilings	 Lamp bodies for indoor lighting	 Lamp bodies for indoor and outdoor lighting	 Lamp bodies for outdoor lighting
 50/60 Hz Rated frequency	 Lamp bodies to be installed on side walls	 Lamp bodies to be installed on ceilings or side walls	 Lamp bodies to be recessed into false ceilings
 3 x 1,5 mm ² 30 cm Connecting cable	 [mm ²] 2 x 1,5 Terminal capacity	 3 x 1 mm ² H05VV-F Connecting cable	IP 65 Protection degree
 [h] 50.000 Lifespan	 With magnetic ballast	SMD LED LED type	 Light source not to be changed
 Not to be used with dimmer control	 T_a -5..+40 °C Ambient temperature	 [h] 10s-12min Adjusting time	 ≥ 80 Ra Color rendering index
 Cutting allowed	 ON-OFF >30.000 Number of switching cycles	 [m] 1 Minimum distance from illuminated object	 250° Light beam angle
 3-2.000 lux Light flux, illumination (lux)	 Dimmer control allowed	Hg 0 mg Mercury content	 $T_{up} < 1s$ Running-up time
 EVG With electronic ballast	 Sensor	 Remote control	 0.6...1,5m/s Motion speed
 180° Detection range	 E27 Type of socket	 G13 Type of socket	 R7s Type of socket



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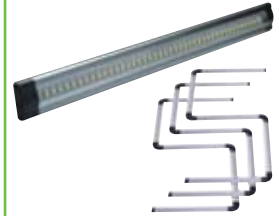
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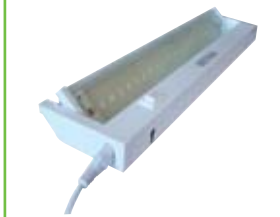
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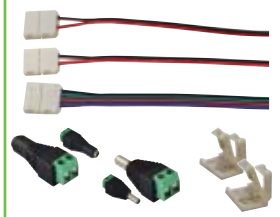
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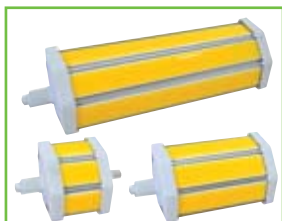
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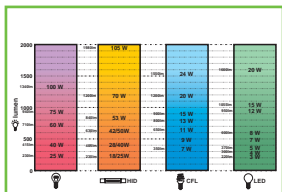
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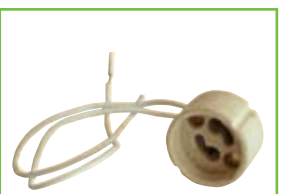
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Developments in LED technology have reached a level to enable replacement of the earlier largely used metal-halide lamps with a more energy-efficient, economic and easier controllable lighting.

The evident saving and long service warranty compensate the heavier investment cost.

The LED high-bay lamps recommended for replacement of metal-halide lamps ensure uniform work-plane illumination.

The reflectors are offered with the most common 4.500 °K colour temperature.

Products with other colour temperatures are delivered against overprice.

If wanted, the lamps are available with intelligent, controllable drivers, see below!

The data above refer to permanent use of the lighting system. Further energy saving is possible by light intensity control and controlled ON/OFF switching of the lamps by movement sensors.



You can find the detailed data sheet of all type of LED luminaries containing light distribution curves, dimensions, etc. in our Webshop.



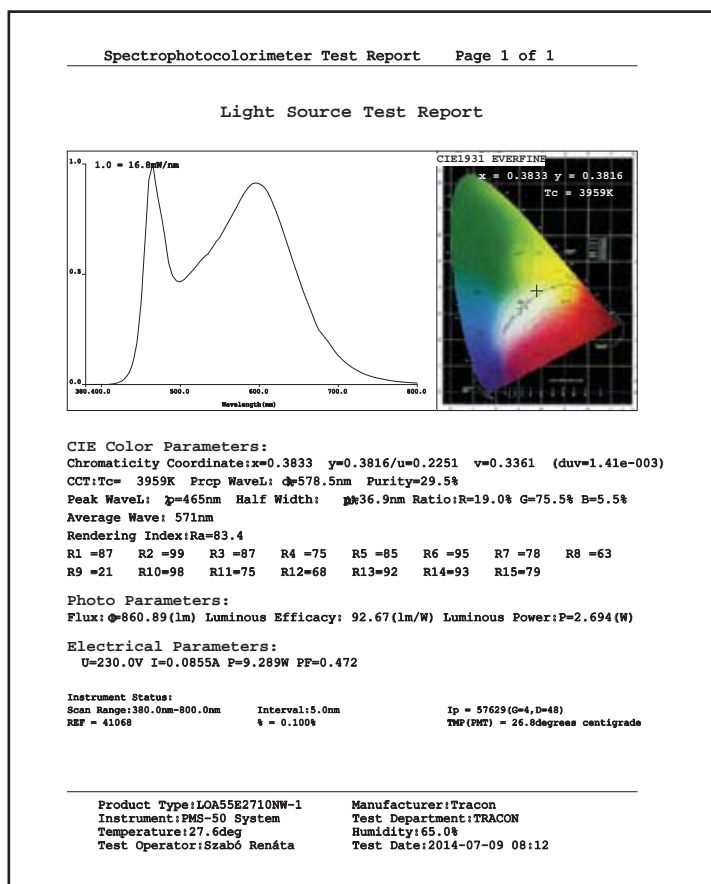
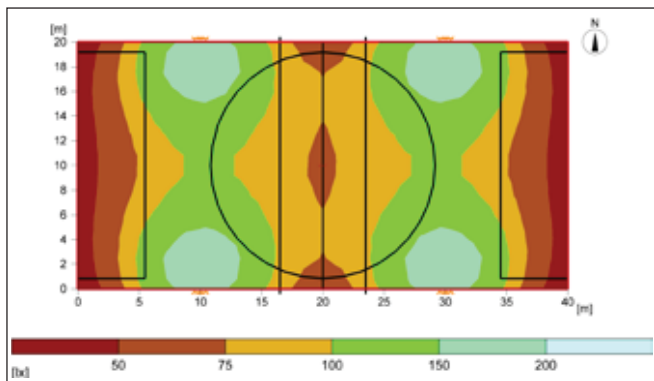
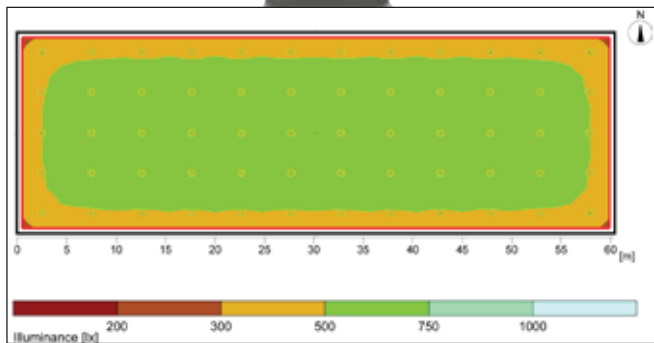
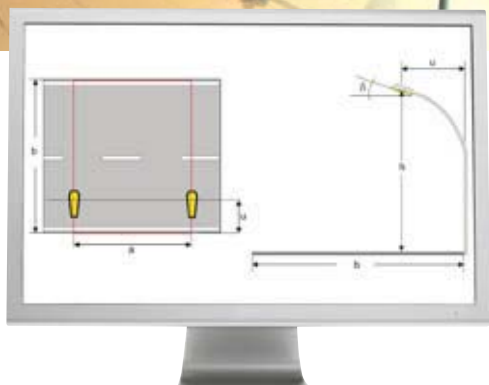
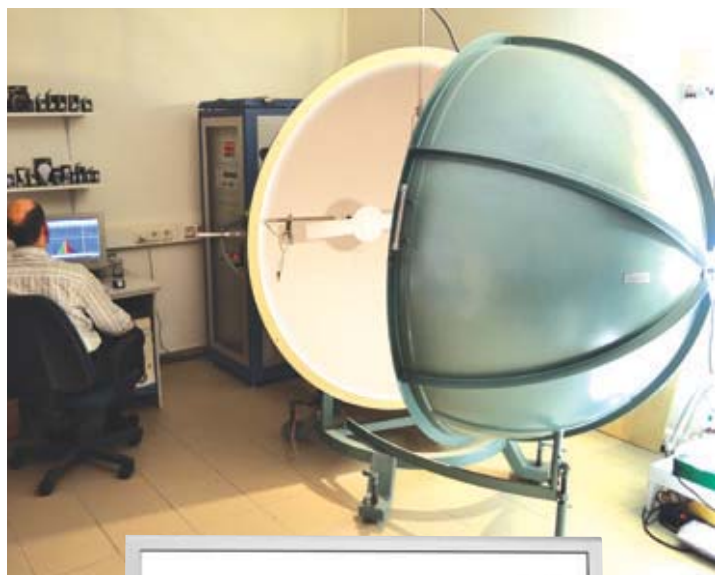
SCAN THE QR CODE!

- Check our new products
- Be updated

Our assortment is expanding quickly and continuously!
This catalogue reflects the status in May 2015.
Be up to date by our web page!

Lighting tests and light planning

We are testing our lighting products continuously in our lighting laboratory so make sure that our partners can get good quality products from us.

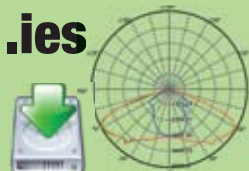


We are supporting the common work with our partners using the Relux software generating preliminary light plans.



For easier light planning the IES photometric files of our professional LED lights can be downloaded from our web page. These IES format files can import easily to common used light planning programs (Dialux, Relux).

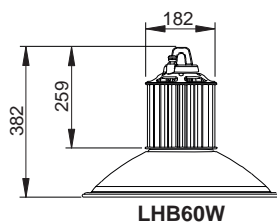
.ies



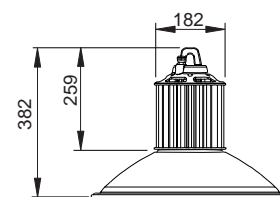
LED indoor high bay lights



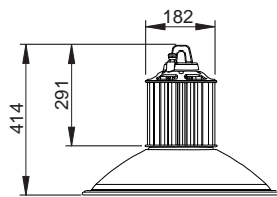
TRACON					
LHB60W	60 W	150 W	6.000 lm	4.500 K	A+
LHB80W	80 W	200 W	8.000 lm	4.500 K	A+
LHB100W	100 W	250 W	10.000 lm	4.500 K	A+
LHB150W	150 W	400 W	15.000 lm	4.500 K	A+
LHB200W	200 W	500 W	20.000 lm	4.500 K	A
LHB300W	300 W	800 W	30.000 lm	4.500 K	A



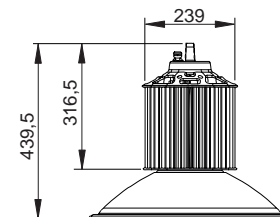
LHB60W



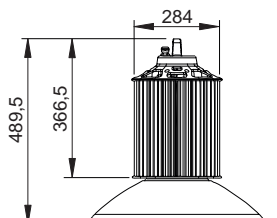
LHB80W



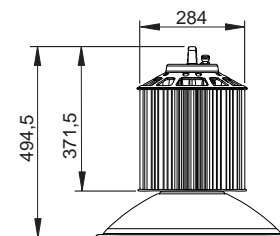
LHB100W



LHB150W



LHB200W

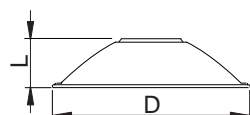


LHB300W

The reflector is included for the LHB lights so while ordering its type have to be provided! At follow-up order the price of reflector will be invoiced!

Reflectors for LHB high bay lights

TRACON	[°]	DxL
LHBB60	60°	350 × 200 mm
LHBB90	90°	480 × 155 mm
LHBB110	110°	500 × 150 mm



60°



90°

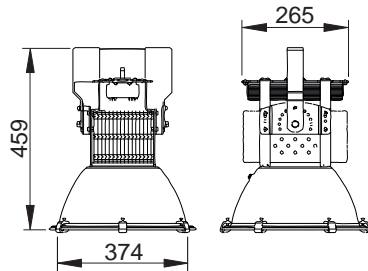


110°

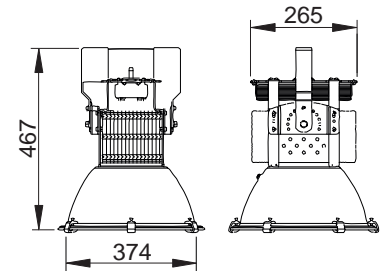
LED outdoor high bay lights

90-265 V AC	50/60 Hz	[h] 50.000		≥ 75	ON-OFF >30.000			EPISTAR LED			T_a -20...+50°C	$\cos \phi$ >0,95
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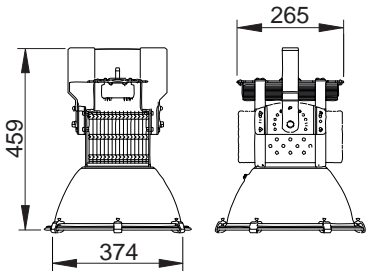
TRACON	[W]	LED	[lm]	Tc [K]	
LHBO80W	80 W	200 W	8.000 lm	4.500 K	A+
LHBO100W	100 W	250 W	10.000 lm	4.500 K	A+
LHBO150W	150 W	400 W	15.000 lm	4.500 K	A+
LHBO200W	200 W	500 W	20.000 lm	4.500 K	A
LHBO300W	300 W	800 W	30.000 lm	4.500 K	A
LHBO400W	400 W	1.000 W	40.000 lm	4.500 K	A
LHBO500W	500 W	1.200 W	50.000 lm	4.500 K	A



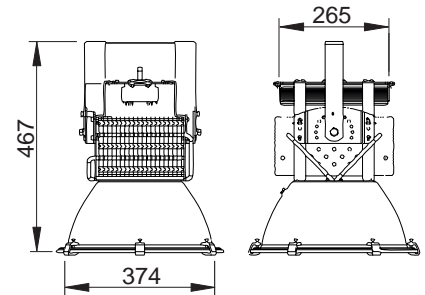
LHBO80W



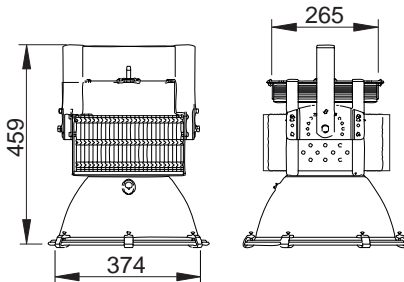
LHBO100W



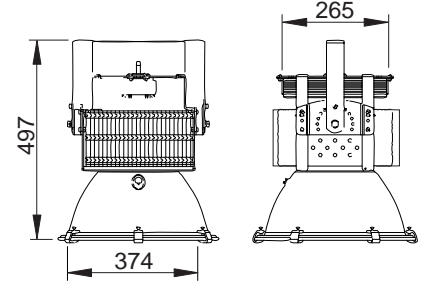
LHBO150W



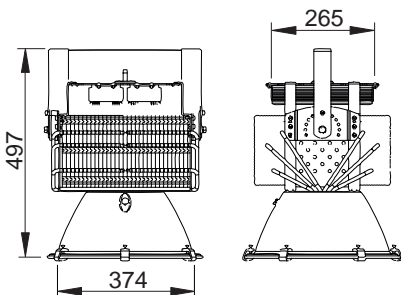
LHBO200W



LHBO300W



LHBO400W



LHBO500W

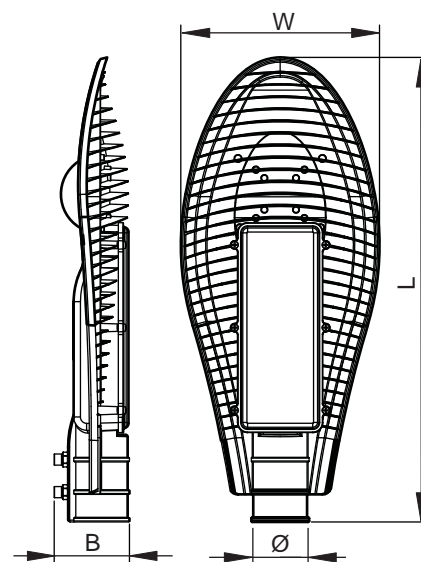
Coming soon!



LED Street lighting, LSJA series



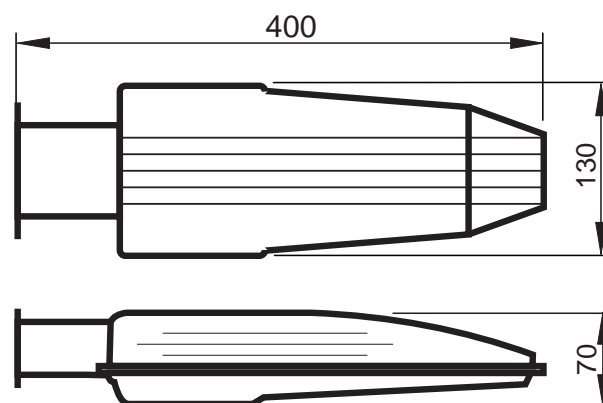
TRACON			L [W]		Tc [K]		D x H	L (mm)	W (mm)	B (mm)	φ (mm)	
LSJA30W	1 x 30 W	70 W	3.000 lm	4.500 K	∅ 50 mm x 6 m	500	214	81	50	A+		
LSJA50W	1 x 50 W	120 W	5.000 lm	4.500 K	∅ 50 mm x 6 m	500	214	81	50	A+		
LSJA60W	1 x 60 W	150 W	6.000 lm	4.500 K	∅ 50 mm x 6 m	500	214	81	50	A+		
LSJA80W	1 x 80 W	200 W	8.000 lm	4.500 K	∅ 60 mm x 8 m	620	260	101	60	A+		
LSJA100W	2 x 50 W	250 W	10.000 lm	4.500 K	∅ 60 mm x 8 m	700	280	112	65	A		
LSJA120W	2 x 60 W	300 W	12.000 lm	4.500 K	∅ 60 mm x 8 m	700	280	112	65	A		
LSJA150W	3 x 50 W	400 W	15.000 lm	4.500 K	∅ 60 mm x 12 m	880	340	122	65	A		
LSJA180W	3 x 60 W	500 W	18.000 lm	4.500 K	∅ 60 mm x 12 m	880	340	122	65	A		
LSJA200W	4 x 50 W	550 W	20.000 lm	4.500 K	∅ 73 mm x 12 m	1100	420	126	73	A		
LSJA240W	4 x 60 W	600 W	24.000 lm	4.500 K	∅ 73 mm x 12 m	1100	420	126	73	A		



LED Street lighting, LSJK series



TRACON			L [W]		Tc [K]	
LSJK20W	20 W	70 W	2.000 lm	4.500 K	A+	



LED Street lighting, LSJC series



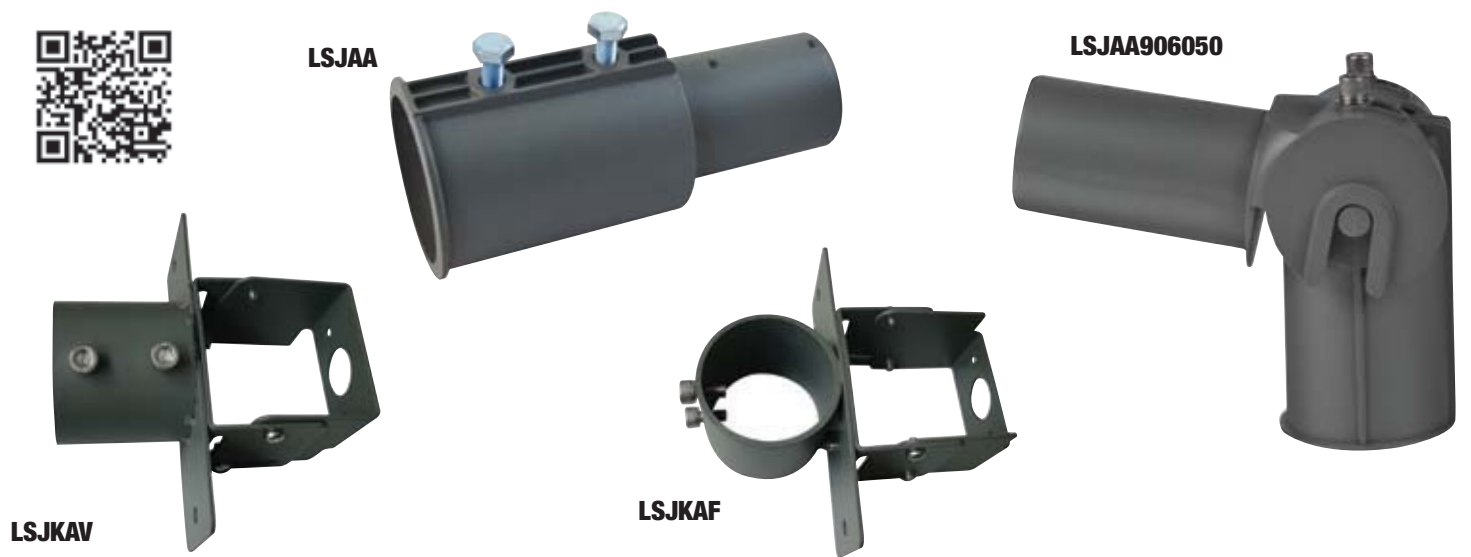
TRACON						L (mm)	W (mm)	B (mm)	φ (mm)	
LSJC50W	1 × 50 W	120 W	4.500 lm	4.500 K	∅ 50 mm × 6 m	518	228	114	54	A
LSJC60W	1 × 60 W	150 W	5.400 lm	4.500 K	∅ 50 mm × 6 m	518	228	114	54	A
LSJC100W	1 × 100 W	250 W	9.000 lm	4.500 K	∅ 60 mm × 8 m	750	322	145	65	A
LSJC120W	1 × 120 W	300 W	10.800 lm	4.500 K	∅ 60 mm × 8 m	750	322	145	65	A



Accessories

TRACON

LSJKAV	Pole adapter for LSJK streetlights, on horizontal poles, 50 mm
LSJKAF	Pole adapter for LSJK streetlights, on vertical poles, 50 mm
LSJAA	Pole adaptor for LSJA30/50/60 streetlights
LSJAA906050	Adjustable pole adapter for streetlights, (0/90°)±10°, 50/60 mm
LSJAA906060	Adjustable pole adapter for streetlights, (0/90°)±10°, 60/60 mm



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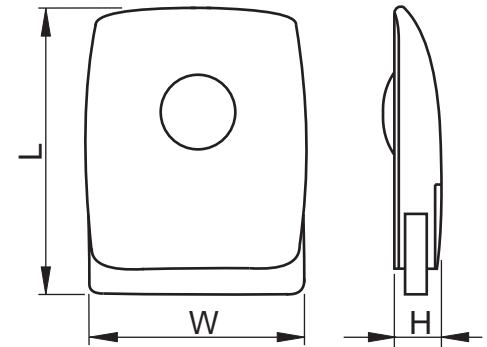
This catalogue reflects the status in May 2015.

Be up to date by our web page!

LED floodlights, RSMDB series

100-240 V AC	50/60 Hz	50.000 [h]		≥ 75 Ra	ON-OFF >30.000			SMD LED			Ta -20...+50°C		IP 65
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TRACON			L E D		Tc [K]	L (mm)	W (mm)	B (mm)	
RSMDB10W	10 W	–	–	850 lm	4.500 K	198	160	45	A
RSMDB20W	20 W	–	–	1.700 lm	4.500 K	198	160	45	A
RSMDB30W	30 W	70 W	–	2.550 lm	4.500 K	320	220	61	A
RSMDB50W	50 W	120 W	–	4.250 lm	4.500 K	320	220	61	A
RSMDB80W	80 W	200 W	–	6.800 lm	4.500 K	357	320	68	A
RSMDB100W	100 W	250 W	–	8.500 lm	4.500 K	357	320	68	A
RSMDB120W	120 W	300 W	–	10.200 lm	4.500 K	450	360	76	A
RSMDB150W	150 W	400 W	–	12.750 lm	4.500 K	450	360	76	A



We are shipping generally these floodlights with 120° beam angle optic. If one needs floodlight with different beam angle (60° or 90°) that have to be noted at ordering.



LED floodlights, R-SMDH series

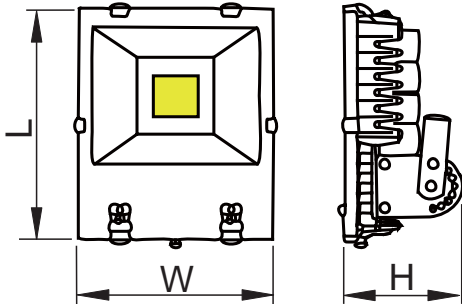
100-240 V AC	50/60 Hz	50.000 [h]		$Ra \geq 75$	ON-OFF >30.000			SMD LED			Ta -20...+50°C	1 [m]	IP 65
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TRACON			L [mm]	Tc [K]	L (mm)	W (mm)	B (mm)	
R-SMDH-100W	100 W	200 W	8.500 lm	4.500 K	341	250	116	A
R-SMDH-120W	120 W	250 W	10.200 lm	4.500 K	375	310	187	A
R-SMDH-150W	150 W	400 W	12.800 lm	4.500 K	375	310	187	A
R-SMDH-200W	200 W	500 W	17.000 lm	4.500 K	400	340	187	A



**R-SMDH-100W
R-SMDH-120W
R-SMDH-150W**

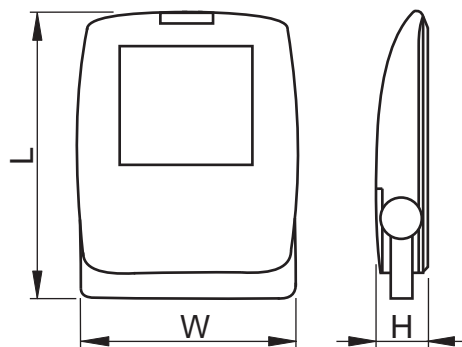
R-SMDH-200W



LED floodlights, R-SMDP series

100-240 V AC	50/60 Hz	50.000 [h]		$Ra \geq 75$	ON-OFF >30.000			SMD LED			Ta -20...+50°C	1 [m]	IP 65
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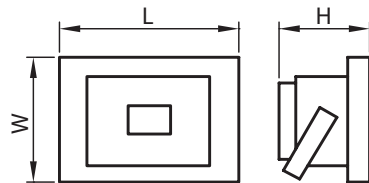
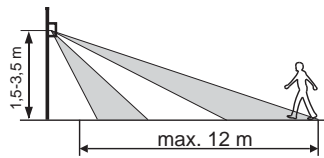
TRACON			L [mm]	Tc [K]	L (mm)	W (mm)	B (mm)	
R-SMDP-50W	50 W	100 W	4.000 lm	4.500 K	323	242	79	A
R-SMDP-80W	80 W	150 W	6.400 lm	4.500 K	323	242	79	A
R-SMDP-100W	100 W	200 W	8.000 lm	4.500 K	461	381	129	A
R-SMDP-200W	200 W	500 W	16.000 lm	4.500 K	630	470	165	A



SMD LED floodlights

100-240 V AC 50/60 Hz 25.000 [h] SMD LED 0,5 [m] 180° 3-2.000 lux 10s-7min

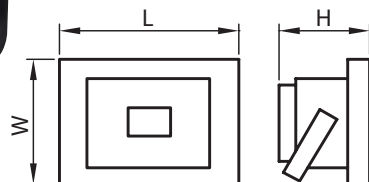
TRACON						L x W x H (mm)	
R-SMD-10W	R-SMDM-10W	10 W	70 W	700 lm	4.500 K	115 x 90 x 86	A
R-SMD-20W	R-SMDM-20W	20 W	150 W	1.400 lm	4.500 K	183 x 142 x 102	A
R-SMD-30W	R-SMDM-30W	30 W	250 W	2.100 lm	4.500 K	227 x 188 x 128	A
R-SMD-50W	R-SMDM-50W	50 W	400 W	3.500 lm	4.500 K	288 x 236 x 146	A



SMD LED floodlights, slim type

100-240 V AC 50/60 Hz 25.000 [h] SMD LED 0,5 [m] Pictograms **E/O**

TRACON					L x W x H (mm)	
R-SMDL-10W	10 W	70 W	700 lm	4.500 K	120 x 128 x 46	A
R-SMDL-20W	20 W	150 W	1.400 lm	4.500 K	185 x 178 x 55	A
R-SMDL-30W	30 W	250 W	2.100 lm	4.500 K	226 x 230 x 55	A
R-SMDL-50W	50 W	400 W	3.500 lm	4.500 K	286 x 276 x 75	A



Portable / mounting LED floodlights

100-240 V AC 50/60 Hz IP 65 Ra ≥ 75 30.000 [h] SMD LED Ta -20..+50°C 3x1,5mm² 30 cm

Pictograms E/0

TRACON							LI-ION	
	[W]	LED	[lm]	Tc [K]	[°]	[h]		
RSMDACC10W	10 W	70 W	700 lm	4.500 K	120°	5 h	7.2V/2.2 Ah	A
RSMDACC20W	20 W	150 W	1.400 lm	4.500 K	120°	5 h	14,4V/4,4 Ah	A
RSMDSZ20W	20 W	150 W	1.400 lm	4.500 K	120°	-	-	A
RSMDA220W	2 x 20 W	2x150W	2 x 1.400 lm	4.500 K	120°	-	-	A



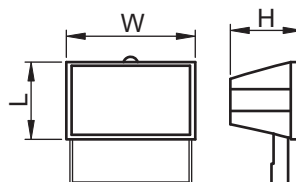
TRACON APPLICATION



Energy-saving floodlights

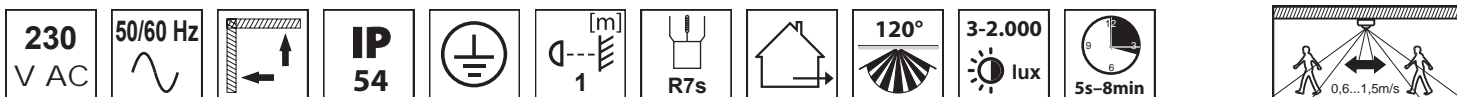


TRACON		L (mm)	W (mm)	H (mm)		
R-E27-2	2 × 60 W	195	255	145	2 × E27	A++, A+, A, B, C, D, E



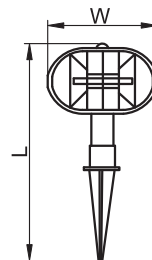
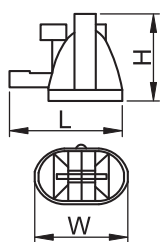
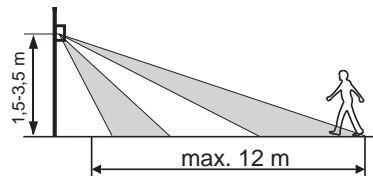
**RELEVANT STANDARD
EN 60598**

Sticking oval shape floodlights



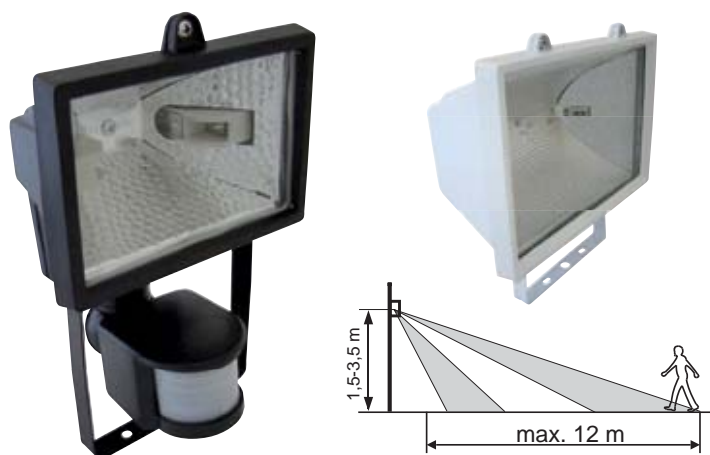
TRACON				L (mm)	W (mm)	H (mm)	I (mm)	
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RK-150	RKM-150	150 W	78 mm	242	140	95	-	A++, A+, A, C, D, E
RK-500	RKM-500	500 W	118 mm	246	180	141	-	
RKL-150	-	150 W	78 mm	358	140	95	118	
RKL-500	-	500 W	118 mm	400	180	141	166	



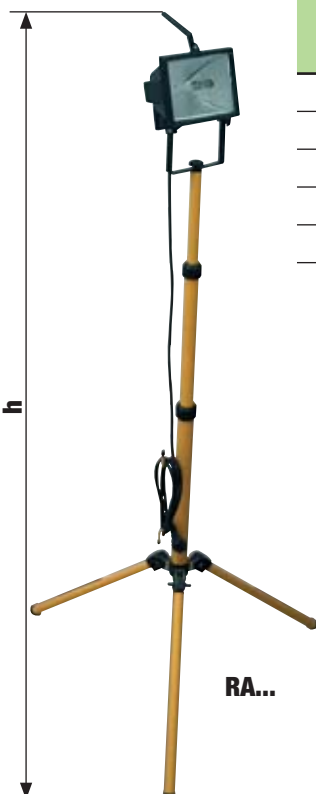
Floodlights

TRACON					
R-150W	RM-150W	150 W		78 mm	A++, A+, A, C, D, E
R-150WFEH	RM-150WFEH	150 W		78 mm	
R-500W	RM-500W	500 W		118 mm	
R-500WFEH	RM-500WFEH	500 W		118 mm	
R-1000W	-	1000 W		189 mm	
R-1000WFEH	-	1000 W		189 mm	



Service floodlights

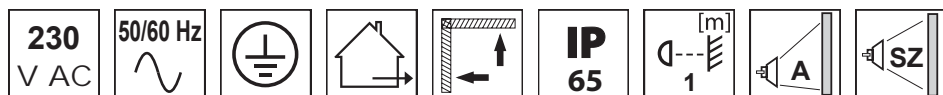
TRACON		h (mm)			
RU-150	150 W	-	78 mm	1.2 m	A++, A+, A, C, D, E
RH-150	150 W	-	78 mm	1.2 m	
RH-500	500 W	-	118 mm	1.2 m	
RSZ-500	500 W	-	118 mm	1.2 m	
RA-150	150 W	650-1150	78 mm	2.5 m	
RA-500	500 W	1000-2000	118 mm	3 m	



RELEVANT STANDARD
EN 60598



Metal halide floodlights without operating elements



TRACON				L (mm)	W (mm)	H (mm)			
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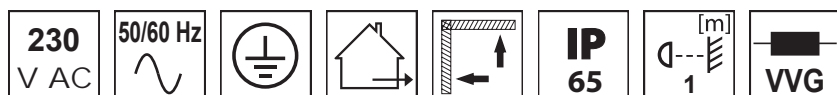
R-FH-R7S-150A	Rx7s	150 W	435	280	130	A	A
R-FH-R7S-150SZ	Rx7s	150 W	435	280	130	SZ	A
R-FH-E27-150A	E27	150 W	435	280	130	A	A
R-FH-E27-150SZ	E27	150 W	435	280	130	SZ	A
R-FH-E40-400A	E40	400 W	425	433	147	A	A
R-FH-E40-400SZ	E40	400 W	425	433	147	SZ	A

A: asymmetrical

SZ: symmetrical



Metal halide floodlights with operating elements



TRACON				L (mm)	W (mm)	H (mm)			
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R-FHSZ-R7S-70A	Rx7s	70 W	435	280	130	A	A
R-FHSZ-R7S-150A	Rx7s	150 W	435	280	130	A	A
R-FHSZ-R7S-70SZ	Rx7s	70 W	435	280	130	SZ	A
R-FHSZ-R7S-150SZ	Rx7s	150 W	435	280	130	SZ	A
R-FHSZ-E40-250A	E40	250 W	425	433	147	A	A
R-FHSZ-E40-400A	E40	400 W	425	433	147	A	A
R-FHSZ-E40-250SZ	E40	250 W	425	433	147	SZ	A
R-FHSZ-E40-400SZ	E40	400 W	425	433	147	SZ	A

A: asymmetrical

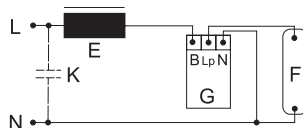
SZ: symmetrical



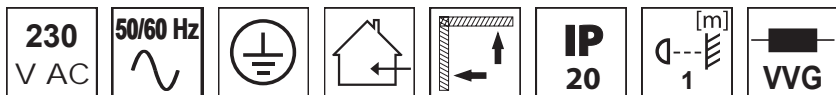
Auxiliary equipment for metal halogen floodlights



TRACON		In
FHE-70	70 W	1 A
FHE-150	150 W	1,8 A
FHE-250	250 W	2,4 A
FHE-400	400 W	3,25 A



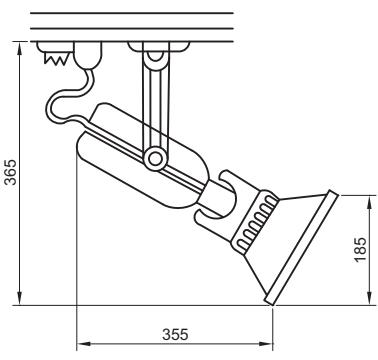
Rotating metal halide floodlights



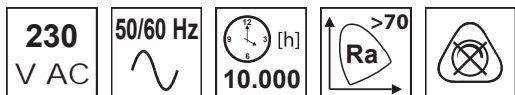
TRACON					
R-FHK-70-FEH		G12	70 W	SZ	A
R-FHK-150-FEH		G12	150 W	SZ	A
R-FHK-70-FEK		G12	70 W	SZ	A
R-FHK-150-FEK		G12	150 W	SZ	A



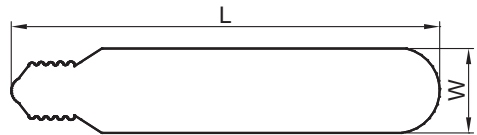
R-FHK-...



Metal halide lamps



TRACON			L (mm)	W (mm)	Tc [K]		
FHL-R7S-70W	Rx7s	70 W	120	20	6.000 K	5.600 lm	A
FHL-R7S-150W	Rx7s	150 W	138	23	6.000 K	11.250 lm	A
FHL-E27-70W	E27	70 W	141	55	6.000 K	5.600 lm	A
FHL-E27-150W	E27	150 W	141	55	6.000 K	11.250 lm	A
FHL-E40-250W	E40	250 W	257	46	6.000 K	20.500 lm	A
FHL-E40-400W	E40	400 W	283	46	6.000 K	38.000 lm	A



SCAN THE QR CODE!

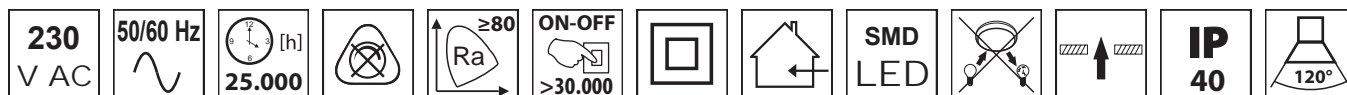
- Check our new products
- Be updated

Our assortment is expanding quickly and continuously!

This catalogue reflects the status in May 2015.

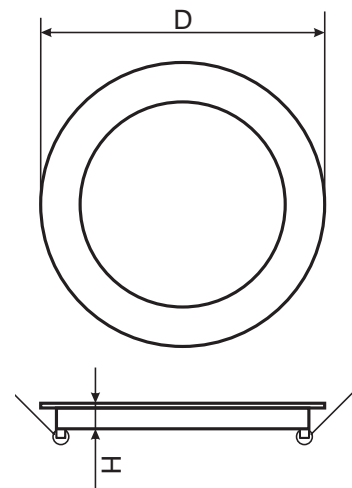
Be up to date by our web page!

Round shape LED downlights

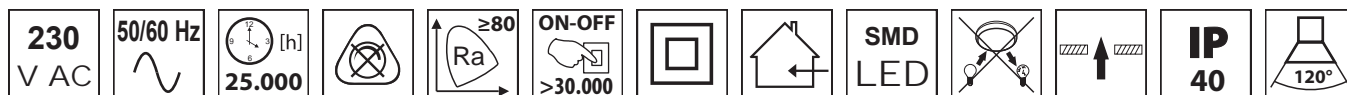


TRACON			LED		Tc [K]		D × H	
LED-DL-6NW	6 W	1 × 13 W		390 lm	4.000 K	110 mm	120 × 20 mm	A
LED-DL-12WW	12 W	1 × 26 W		800 lm	2.700 K	160 mm	174 × 20 mm	A
LED-DL-12NW	12 W	1 × 26 W		800 lm	4.000 K	160 mm	174 × 20 mm	A
LED-DL-18WW	18 W	2 × 26 W		1.200 lm	2.700 K	205 mm	235 × 20 mm	A
LED-DL-18NW	18 W	2 × 26 W		1.200 lm	4.000 K	205 mm	235 × 20 mm	A

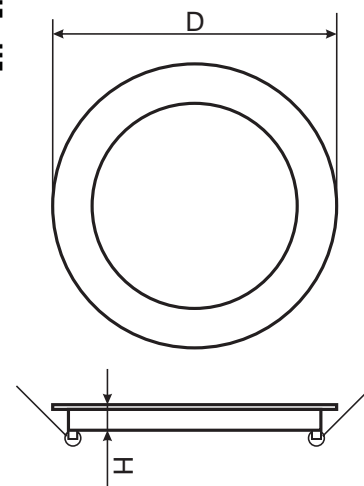
The luminaires are containing the driver unit and the LED light sources so they can use directly from utility network.



Round shape LED downlights with decorative edge

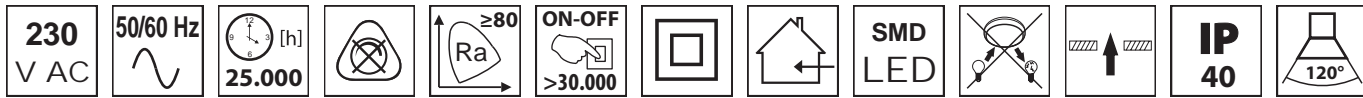


TRACON			LED		Tc [K]		D × H	
LED-DLP-6NW	6 W	1 × 13 W		415 lm	4.000 K	75 mm	95 × 35 mm	A
LED-DLP-12NW	12 W	1 × 26 W		800 lm	4.000 K	130 mm	160 × 35 mm	A
LED-DLP-18NW	18 W	2 × 26 W		1.280 lm	4.000 K	170 mm	200 × 35 mm	A

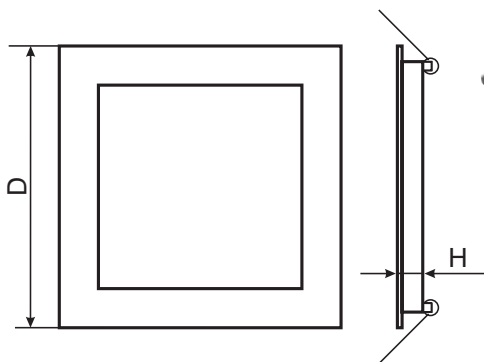


The luminaires are containing the driver unit and the LED light sources so they can use directly from utility network.

Square shape LED downlights

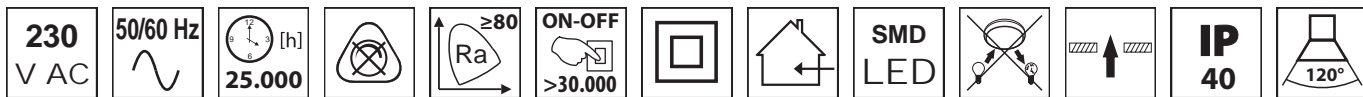


TRACON						D × H	
LED-DLN-6NW	6 W	1 × 13 W	400 lm	4.000 K	110 × 100 mm	120 × 120 × 20 mm	A
LED-DLN-12NW	12 W	1 × 26 W	850 lm	4.000 K	160 × 160 mm	172 × 172 × 20 mm	A
LED-DLN-18NW	18 W	2 × 26 W	1.300 lm	4.000 K	215 × 215 mm	225 × 225 × 20 mm	A

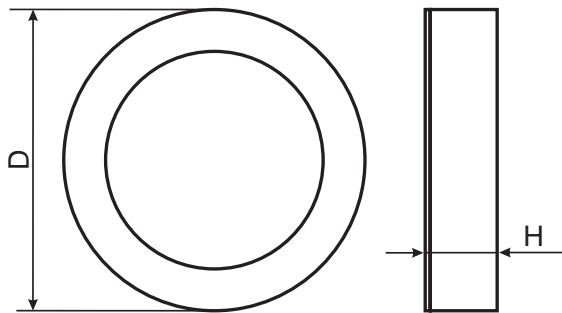


The luminaires are containing the driver unit and the LED light sources so they can use directly from utility network.

Surface mount round LED downlights



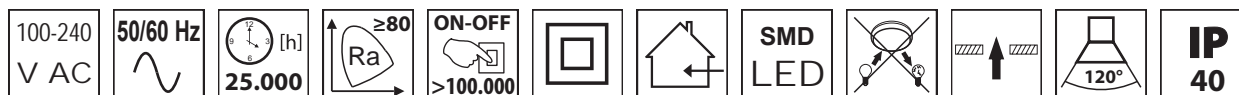
TRACON						D × H	
LED-DLF-6NW	6 W	1 × 13 W	330 lm	4.000 K	-	120 × 37 mm	A
LED-DLF-12NW	12 W	1 × 26 W	800 lm	4.000 K	-	175 × 37 mm	A
LED-DLF-18NW	18 W	2 × 26 W	1.200 lm	4.000 K	-	220 × 37 mm	A
LED-DLF-28NW	28 W	3 × 26 W	1.800 lm	4.000 K	-	300 × 37 mm	A



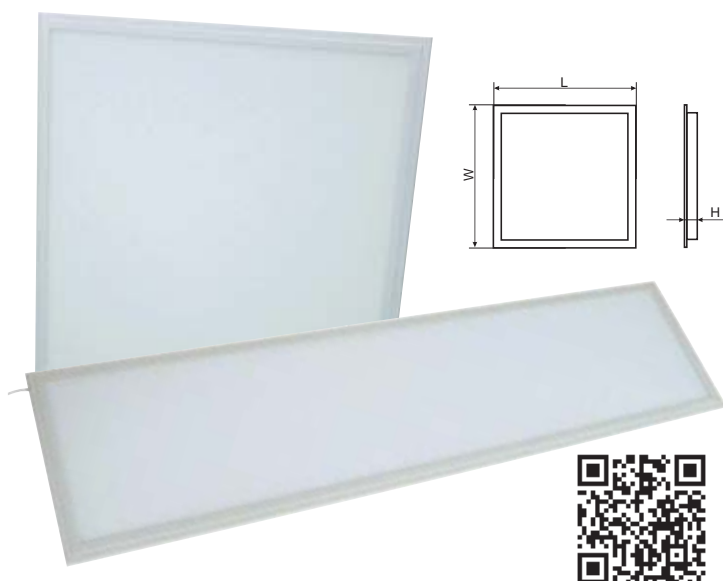
The luminaires are containing the driver unit and the LED light sources so they can use directly from utility network.



LED panels



TRACON					L x W x H	
LP303019NW	19 W	2x18 W	1.400 lm	4.000 K	296 x 296 x 11 mm	A
LP606040WW	40 W	4 x 18 W	2.900 lm	2.700 K	596 x 596 x 11 mm	A
LP606040NW	40 W	4 x 18 W	2.900 lm	4.000 K	596 x 596 x 11 mm	A
LPE606050NW	48 W	4 x 18 W	4.000 lm	4.000 K	596 x 596 x 14 mm	A
LP3012040WW	40 W	2 x 36 W	2.900 lm	2.700 K	1.196 x 296 x 11 mm	A
LP3012040NW	40 W	2 x 36 W	2.900 lm	4.000 K	1.196 x 296 x 11 mm	A



These rectangular LED panels to be installed in false ceilings are recommended for lighting in public rooms, such as bureaux or workshops.

The panels sized 600 x 600 mm have the same dimensions as the raster meant for 4 x 18 W fluorescent lamp bodies, whereas the panels sized 300 x 1200 mm are equal in size to the 2 x 36 W fluorescent lamp bodies, primarily meant for lighting in corridors.

Completed with **INV-DL-15** units, the panels can optionally be used as emergency lighting.

For projects, we optionally offer accessories for instalment on ceilings or hanging from ceilings, as well as items with other technical parameters (power, colour temperature, frame colour, dimensions) and light intensity regulation (dimming).

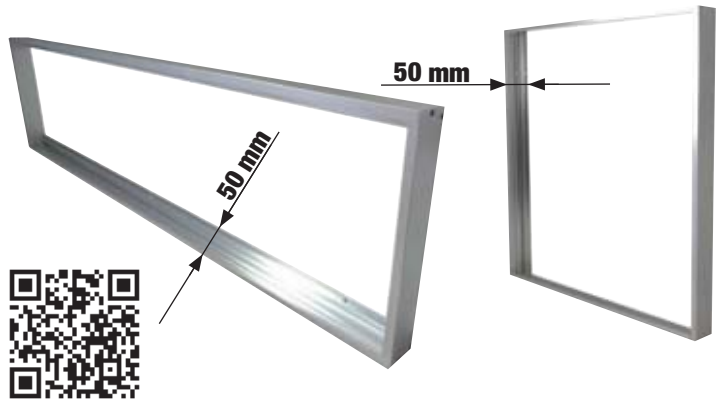
Frame and back wall: aluminium
 Front: polycarbonate
 Colour of the panel frame: white



Mounting frame for LED panels

TRACON	
LP6060K	LP606040NW
LP30120K	LP3012040NW

With optional mounting frame the LED panels can be install on surfaces. Between panel and ceiling drivers can be placed up to height of 32 mm. Material of the frame: aluminum

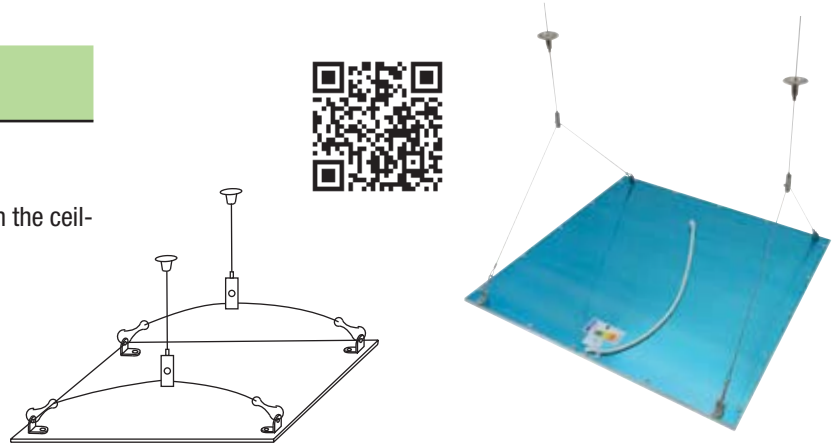


Hanging kit for LED panels




TRACON	
LP606040F*	LP606040NW

1,5 meters long. At high ceilings the panels can be lifted down up to 1,5 m from the ceiling so the false ceiling has not be constructed.

* only for LP606040 panel



Dimmable driver for LED panels

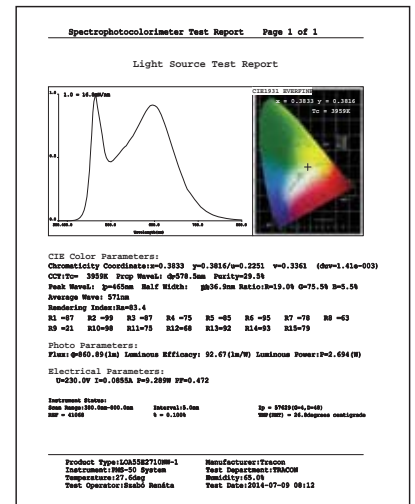
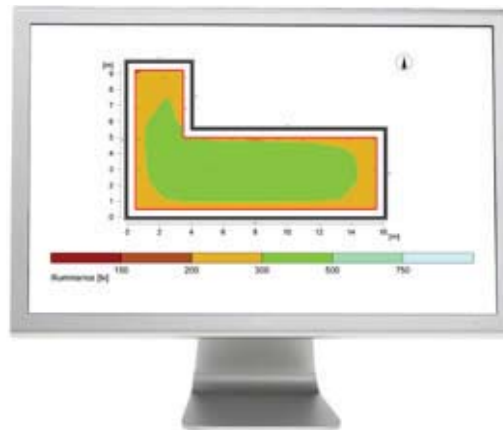
TRACON			$\eta\%$	
LPCC40WD	180-240 VAC; 0,23 A	28-42 VDC; 950 mA	> 85 %	Triac 3 – 100 %

With using dimmable drivers the light of LED panels can be controlled with proper (Triac) outer dimmers.



Lighting tests and light planning

We are testing our lighting products continuously in our lighting laboratory so make sure that our partners can get good quality products from us.



We are supporting the common work with our partners using the Relux software generating preliminary light plans.

TLC lamps and accessories



12 V AC/DC	50/60 Hz	III	House icon	IP 20	2x0,5mm 12 cm
G5.3	max. 50 W	Pictograms		E/0	

TRACON FIX 30°		Ei	
TLC-2C	TLC-6C		A++, A+, A, B, C, D, E
TLC-2MC	TLC-6MC		A++, A+, A, B, C, D, E
TLC-2MG	TLC-6MG		A++, A+, A, B, C, D, E
TLC-2MR	TLC-6MR		A++, A+, A, B, C, D, E
TLC-2W	TLC-6W		A++, A+, A, B, C, D, E

TLC-2C	TLC-2MC	TLC-2MG	TLC-2W	TLC-6C	TLC-6W	TLC-6MG	TLC-6MR

Recessed downlights for compact fluorescent lamps

230 V AC	50/60 Hz	Ta -5..+40 °C	House icon	IP 40	House icon	Pictograms	E/0
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TRACON	Light bulb icon	Power (W)	Lamp type	D (mm)	d (mm)	H (mm)	h (mm)	Mounting	Ei
TLK-15E-E27		max. 26 W	E27	225	205	100	15	215 mm	A++, A+, A, B, C, D, E
TLK-15-2E-E27		max. 2 x 26 W	E27	230	205	100	35	220 mm	A++, A+, A, B, C, D, E

RELEVANT STANDARD
EN 60598



Wall-installed lamps with motion sensor

230 V AC
50/60 Hz

360°
3-2.000 lux
10s-12min
SMD LED

E/0

TRACON				L x W x H D x H (mm)	IP..		
MF01*	1 x E27	max. 1 x 25 W	-	∅ 270 x 103	IP 20	360°	A++, A+, A, B, C, D, E
MF02*	-	16 W	81 x SMD5028	∅ 300 x 112	IP 44	360°	A
MF03*	2 x E14	max. 2 x 40 W	-	∅ 346 x 87 x 65	IP 44	180°	A++, A+, A, B, C, D, E
MF04*	-	16 W	96 x SMD5028	∅ 296 x 75	IP 54	360°	A
MF04	-	16 W	96 x SMD5028	∅ 296 x 75	IP 54	-	A
MF05	-	10 W	24 x SMD5028	∅ 275 x 117	IP 20	-	A

*with radar motion sensor

MF04



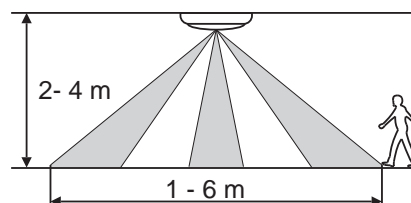
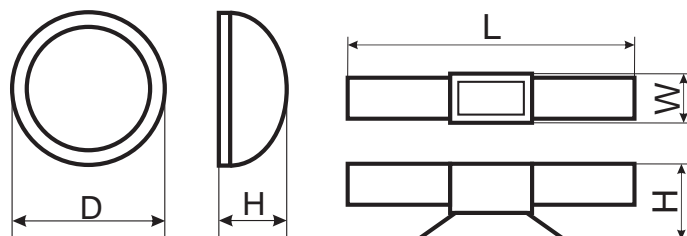
MF01, MF05



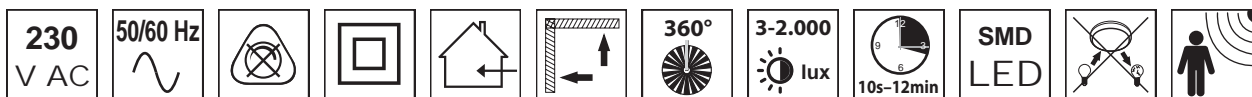
MF02



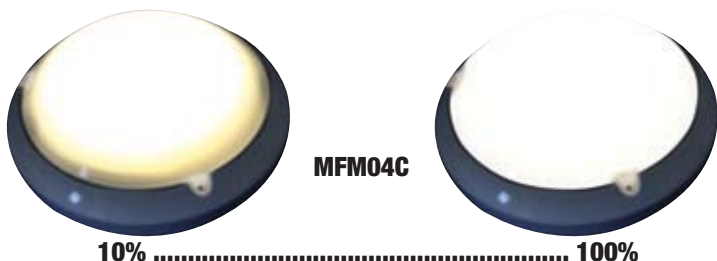
MF03



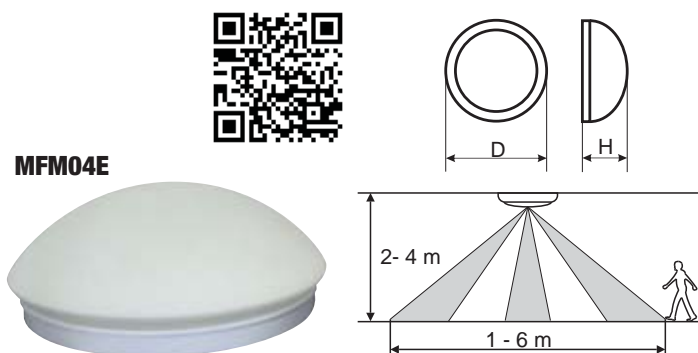
Plastic wall LED luminaries with motion sensor and safety functions



TRACON				L E D	D × H (mm)	IP..		Ei
MFM04C	16 / 1,6 W	6 s...30 min.	96 × SMD5028		∅ 296 × 75	IP 54	360°	A
MFM04E	10 / 5 W	10 s...12 min.	56 × SMD5028		∅ 275 × 117	IP 20	360°	A



The **MFM04C** type is a wall luminary with radar motion sensor which lights basically with 10 % lumen output and switches on 100 % lights while sensing motion. After pre-adjusted time delay the light is falling down to 10 % again until the next motion sensing. The advantages of this option are giving continuous and energy-saving light in rooms without natural light and it can give additional safety information about persons walking in the sensing area.



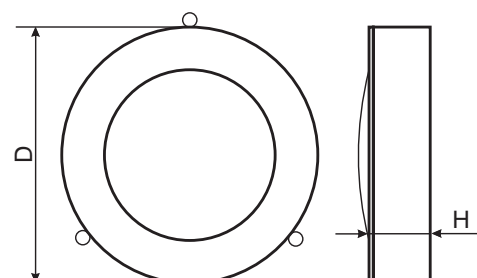
The **MFM04E** type having built-in battery and inverter so in case of power failure it can operate with 30 % of nominal lumen output for 120 minutes continuously. Because the sensor function is still working in this state if the luminary is working in discontinuous operation the battery operated time can be still much longer than 120 minutes!

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

LED wall lamps








TRACON			L E D		Tc [K]	D × H	Ei
LFV40NW	40 W	200 W		3.000 lm	4.000 K	276×86 mm	A
LFV60NW	60 W	300 W		4.200 lm	4.000 K	320×89 mm	A

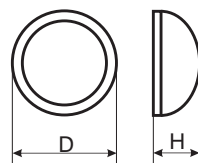


Protected round shaped plastic wall luminaries

230 V AC 50/60 Hz     

 **Pictograms** **E/0**






TRACON					D × H (mm)	IP..	
TLKV-2D-16	○ G10q	16 W	Frosted	-	∅ 270 × 100	IP 54	A
TLKV-2D-21	○ G10q	21 W	Frosted	-	∅ 270 × 100	IP 54	A
TLKV-2D-28	○ G10q	28 W	Frosted	-	∅ 360 × 100	IP 54	A
TLKV-2D-38	○ G10q	38 W	Frosted	-	∅ 360 × 100	IP 54	A
TLKVL-E27	○ E27	max. 60 W	Clear	-	∅ 270 × 100	IP 54	A++, A+, A, B, C, D, E
TLKV-E27	○ E27	max. 60 W	Frosted	-	∅ 270 × 100	IP 54	A++, A+, A, B, C, D, E



Wall and ceiling lamps with glass cover (UFO lamps)

230 V AC 50/60 Hz    **IP 20**  [mm²] 3 x 2,5



TRACON				D (mm)		
UFO-1-B		1 × 60 W	1 × E27	∅ 300 mm	○	A++, A+, A, B, C, D, E
UFO-1-F		1 × 60 W	1 × E27	∅ 300 mm	○	A++, A+, A, B, C, D, E
UFO-1-K		1 × 60 W	1 × E27	∅ 300 mm	○	A++, A+, A, B, C, D, E
UFO-1-Z		1 × 60 W	1 × E27	∅ 300 mm	○	A++, A+, A, B, C, D, E
UFO-2-B		2 × 60 W	2 × E27	∅ 300 mm	○	A++, A+, A, B, C, D, E
UFO-2-F		2 × 60 W	2 × E27	∅ 300 mm	○	A++, A+, A, B, C, D, E
UFO-2-K		2 × 60 W	2 × E27	∅ 300 mm	○	A++, A+, A, B, C, D, E
UFO-2-Z		2 × 60 W	2 × E27	∅ 300 mm	○	A++, A+, A, B, C, D, E
UFO-F-B		1 × 60 W	1 × E27	∅ 300 mm	◐	A++, A+, A, B, C, D, E
UFO-F-F		1 × 60 W	1 × E27	∅ 300 mm	◐	A++, A+, A, B, C, D, E
UFO-F-K		1 × 60 W	1 × E27	∅ 300 mm	◐	A++, A+, A, B, C, D, E
UFO-F-Z		1 × 60 W	1 × E27	∅ 300 mm	◐	A++, A+, A, B, C, D, E



Protected LED lamp

220-240 V AC 50/60 Hz 25.000 [h] $Ra \geq 80$ ON-OFF >100.000 SMD LED **IP 65**

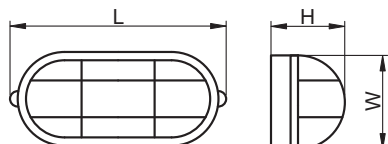
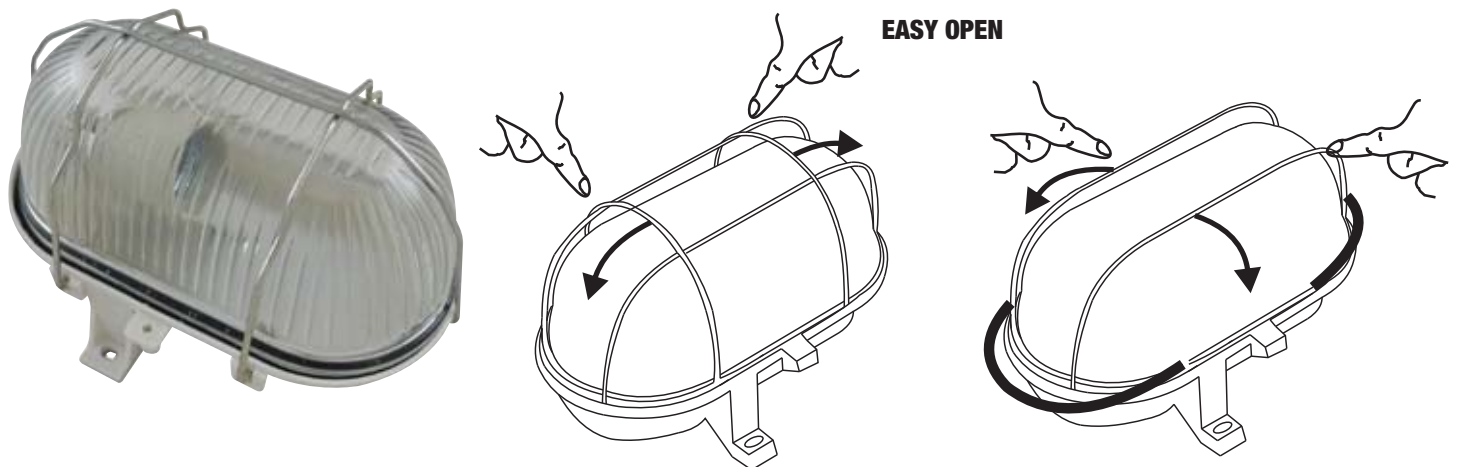
TRACON				T_c [K]	L x W x H D x H	
LHL08W	8 W	60 W	640 lm	4.000 K	170 x 105 x 70 mm	A
LHLK8W	8 W	60 W	640 lm	4.000 K	168 x 65 mm	A
LHLK12W	12 W	75 W	960 lm	4.000 K	168 x 65 mm	A
LHLK18W	18 W	100 W	1.550 lm	4.000 K	168 x 65 mm	A



“Ship-light” – wand-installed lamps to be opened by hand

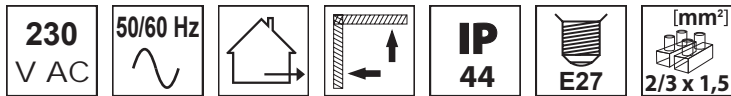
230 V AC 50/60 Hz $d \leq 0,5$ [m] **Pictograms** **E/0**

TRACON			L x W x H	
TLH-08S	E27	max. 60 W	180 x 125 x 110 mm	A++, A+, A, B, C, D, E

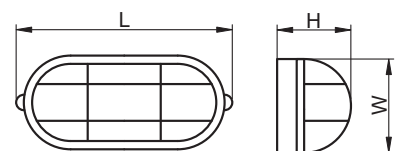


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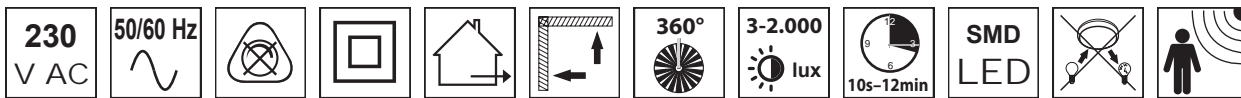
Protected wall lamps



TRACON		Outfit	L (mm)	W (mm)	H (mm)		Ei
○ TLH-04	60 W	Oval, metal housing, with metal grid	210	105	100	⊥	A++...E
○ TLH-04W		Oval, metal housing, with metal grid	210	105	100		A++...E
○ TLH-04RN		Oval, metal housing, without grid	210	105	100		A++...E
○ TLH-04RNW		Oval, metal housing, without grid	210	105	100		A++...E
○ TLH-04F		Oval, metal housing, half covered	210	105	100		A++...E
○ TLH-04FW		Oval, metal housing, half covered	210	105	100		A++...E
○ TLH-04FF		Oval, metal housing, covered, vertical	210	105	100		A++...E
○ TLH-04FFW		Oval, metal housing, covered, vertical	210	105	100		A++...E
○ TLH-05		Round, metal housing, with metal grid	190	175	100		A++...E
○ TLH-05W		Round, metal housing, with metal grid	190	175	100		A++...E
○ TLH-05RN	Round, metal housing, without grid	190	175	100	A++...E		
○ TLH-05RNW	Round, metal housing, without grid	190	175	100	A++...E		
○ TLH-05F	Round, metal housing, half covered	190	175	100	A++...E		
○ TLH-05FW	Round, metal housing, half covered	190	175	100	A++...E		
○ TLH-05KR	Round, metal housing, with round metal grid	190	175	100	A++...E		
○ TLH-05KRW	Round, metal housing, with round metal grid	190	175	100	A++...E		
○ TLH-08	100 W	Oval, plastic housing, with plastic grid	180	125	110	□	A++...E
○ TLH-08W		Oval, plastic housing, with plastic grid	180	125	110		A++...E
○ TLH-08FR		Oval, plastic housing, with metal grid	185	125	113		A++...E
○ TLH-08FRW		Oval, plastic housing, with metal grid	185	125	113		A++...E
○ TLH-14	100 W	Oval, metal housing, with metal grid	280	160	120	⊥	A++...E
○ TLH-14W		Oval, metal housing, with metal grid	280	160	120		A++...E
○ TLH-14RN		Oval, metal housing, without grid	280	160	120		A++...E
○ TLH-14RNW		Oval, metal housing, without grid	280	160	120		A++...E
○ TLH-14F		Oval, metal housing, half covered	280	160	120		A++...E
○ TLH-14FW		Oval, metal housing, half covered	280	160	120		A++...E
○ TLH-14FF		Oval, metal housing, covered, vertical	280	160	120		A++...E
○ TLH-14FFW		Oval, metal housing, covered, vertical	280	160	120		A++...E
○ TLH-15		Round, metal housing, with metal grid	255	240	130		A++...E
○ TLH-15W		Round, metal housing, with metal grid	255	240	130		A++...E
○ TLH-15RN	Round, metal housing, without grid	255	240	130	A++...E		
○ TLH-15RNW	Round, metal housing, without grid	255	240	130	A++...E		
○ TLH-15F	Round, metal housing, half covered	255	240	130	A++...E		
○ TLH-15FW	Round, metal housing, half covered	255	240	130	A++...E		
○ TLH-15KR	Round, metal housing, with round metal grid	255	240	130	A++...E		
○ TLH-15KRW	Round, metal housing, with round metal grid	255	240	130	A++...E		
○ TLH-100	Round, plastic housing	245	245	90	□	A++...E	
○ TLH-100W	Round, plastic housing	245	245	90	□	A++...E	

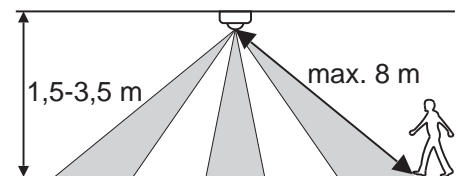
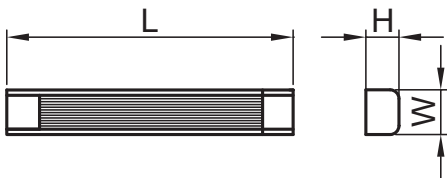


Protected LED industrial lights



TRACON					LxWxH		
TLFVL18W	18 W	36 W	1.440 lm	4.500 K	600 × 86 × 65	280 × SMD3528	A
TLFVLM18W*	18 W	36 W	1.440 lm	4.500 K	600 × 86 × 65	280 × SMD3528	A

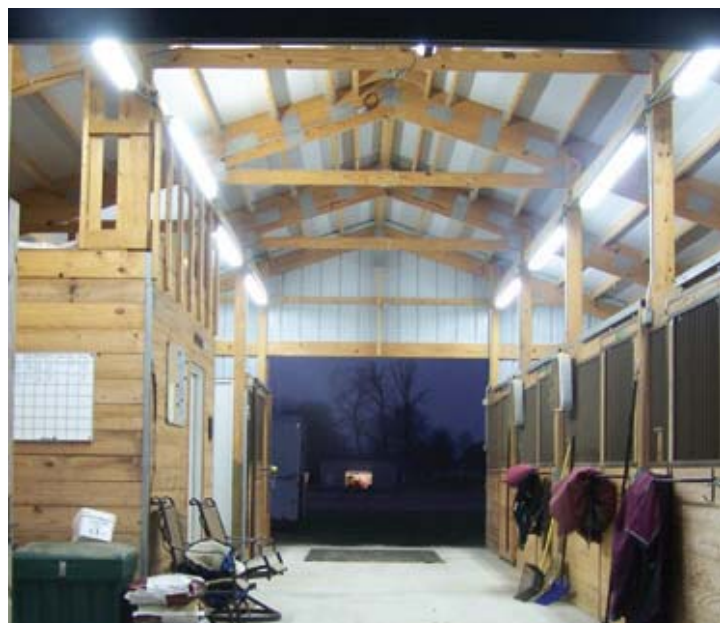
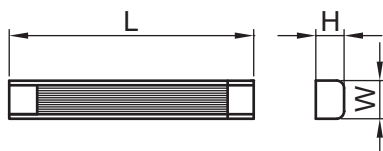
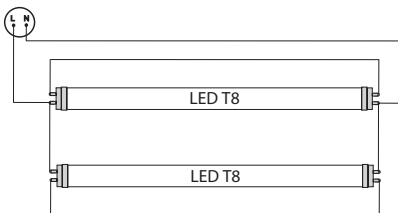
*with radar motion sensor



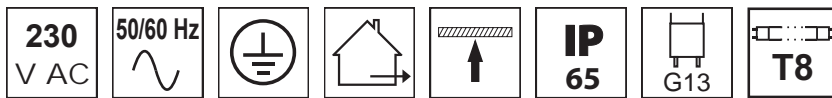
Protected lamp body for LED light tubes



TRACON				L x W x H (mm)	
TLFVLED212	2 × 36 W	2 × 1200 mm	× 10	1270 × 140 × 100	A++, A+, A
TLFVLED215	2 × 58 W	2 × 1500 mm	× 12	1565 × 140 × 100	A++, A+, A

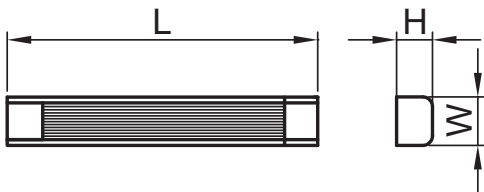


Protected fluorescent lights



TRACON				L x W x H (mm)	
EVG					
TLFV-118E	1 x 18 W	6	655 x 72 x 86	A	
TLFV-136E	1 x 36 W	10	1265 x 72 x 86	A	
TLFV-158E	1 x 58 W	12	1565 x 72 x 86	A	
TLFV-218E	2 x 18 W	6	655 x 115 x 86	A	
TLFV-236E	2 x 36 W	10	1265 x 115 x 86	A	
TLFV-258E	2 x 58 W	12	1565 x 115 x 86	A	

TRACON				L x W x H (mm)	
VVG					
TLFV-118M	1 x 18 W	6	655 x 89 x 92	A	
TLFV-136M	1 x 36 W	10	1265 x 89 x 92	A	
TLFV-158M	1 x 58 W	12	1565 x 89 x 92	A	
TLFV-218M	2 x 18 W	6	655 x 130 x 92	A	
TLFV-236M	2 x 36 W	10	1265 x 130 x 92	A	
TLFV-258M	2 x 58 W	12	1565 x 130 x 92	A	

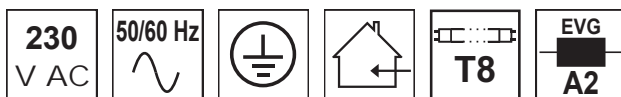


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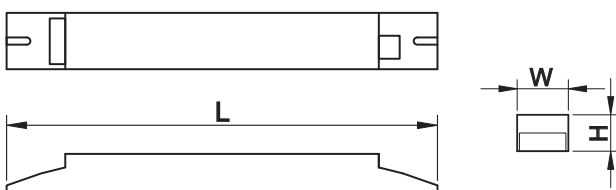
TLFV-BKZ



Electronic ballast for lamps using T8 fluorescent tubes



TRACON		L (mm)	W (mm)	H (mm)
TLFV-EE-118	1 x 18 W	275	28	27
TLFV-EE-136	1 x 36 W	275	28	27
TLFV-EE-158	1 x 58 W	320	32	28
TLFV-EE-218	2 x 18 W	275	28	27
TLFV-EE-236	2 x 36 W	320	32	28
TLFV-EE-258	2 x 58 W	320	32	28
TLFV-EE-418	4 x 18 W	332	33	28



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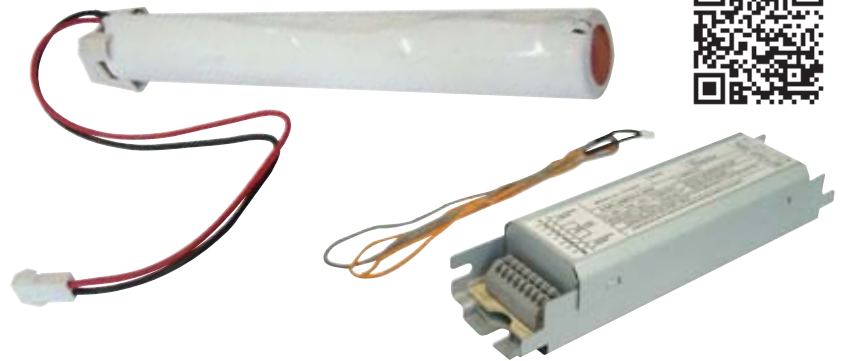


Emergency conversion kits



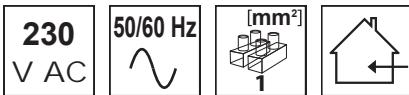
TRACON	T5	T8	[h]	V	Ah
INV-1418	14 W	18 W	1,5 h	3,6 V	2.400 mAh
INV-2836	28 W	36 W	1,5 h	4,8 V	2.400 mAh
INV-3558	35 W	58 W	1,5 h	6 V	2.400 mAh
INV-1418-15	14 W	18 W	0,5 h	3,6 V	1.500 mAh
INV-2836-15	28 W	36 W	0,5 h	4,8 V	1.500 mAh
INV-3558-15	35 W	58 W	0,5 h	6 V	1.500 mAh
INV-2D28-45*	*to TLKV-2D-28, TLKV-2D-38, see page 25.		0,5 h	3,6 V	4.500 mAh
INV-DL-15**	**to LED panels up to 50 W, see page 18.		0,5 h	19,2 V	1.500 mAh

Using these conversion kits all fluorescent luminaries can be used as emergency light after loosing the power supply. The kits contain two devices. The inverter secures the working of tube while the power supply is on. If the power supply is turning off the inverter switches the tube to the circuit of battery and this way the tube can illuminate continuously.

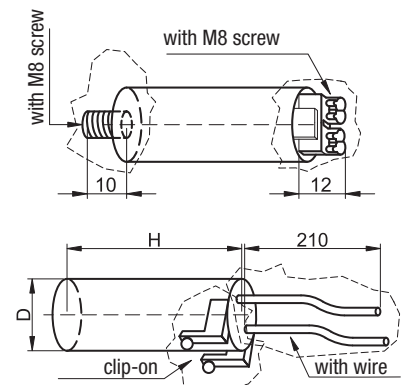


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Capacitors for lamps



TRACON					C (µF)	H (mm)	D (mm)
TLKC-2010	TLKC-2011	TLKC-2012	TLKC-2021	TLKC-2022	2	55	25
TLKC-4010	TLKC-4011	TLKC-4012	TLKC-4021	TLKC-4022	4	55	25
TLKC-4510	TLKC-4511	TLKC-4512	TLKC-4521	TLKC-4522	4,5	55	25
TLKC-7010	TLKC-7011	TLKC-7012	TLKC-7021	TLKC-7022	7	75	25
TLKC-8010	TLKC-8011	TLKC-8012	TLKC-8021	TLKC-8022	8	75	25
TLKC-9010	TLKC-9011	TLKC-9012	TLKC-9021	TLKC-9022	9	67	30



Service lamp

230 V AC 2x0,75 mm² / 5 m H05RN [Square Icon]



TRACON	[Icons: Plug, Bulb, Socket]	[Lightbulb Icon]	Ei
STL-02	—	8 W	A
STL-03	E27	60 W	A++, A+, A,
STL-04	E27	60 W	B, C, D, E



STL-02 Service lamp



STL-03 Service lamp with metal protector grill



STL-04 Service lamp with plastic protector grid

LED service lamp

6 V DC 50.000 [h] Ra ≥80 [III] [House Icon] [No Signal Icon]

Pictograms **E/O**

TRACON	[Lightbulb Icon]	[LED Icon]	[Clock Icon]	[Battery Icon]	Ei
STL-05	5.4 W	x 61	4 h	6 V	A



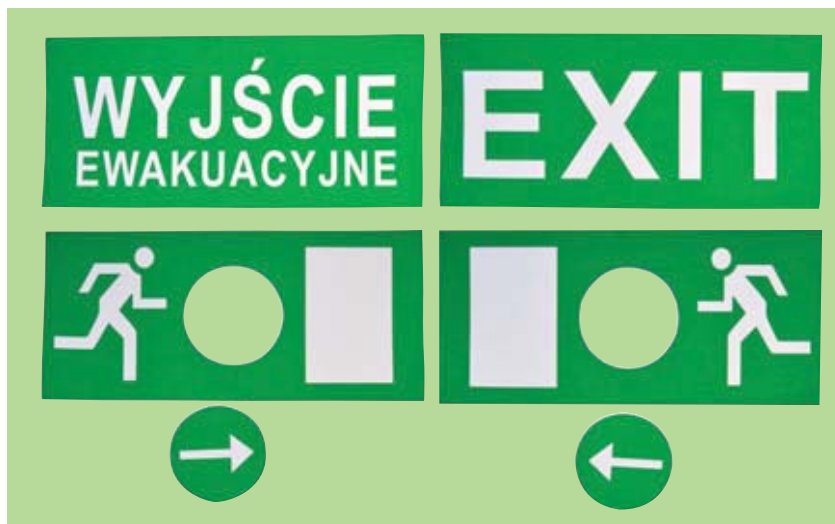
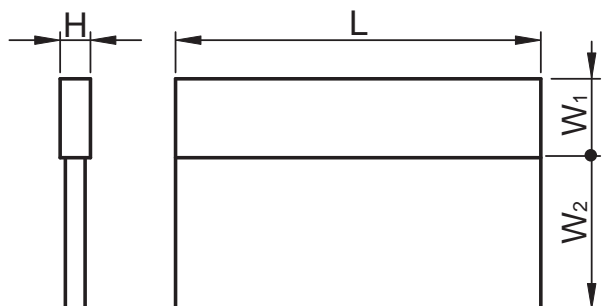
TRACON APPLICATION



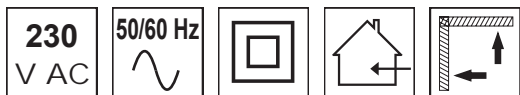
Exit-marking LED lamps



TRACON		[h]	[lm]	LED	V	Ah		L (mm)	W ₁ (mm)	W ₂ (mm)	H (mm)	
EXIT-01-J	4 W	3 h	240 lm	× 13	2.4 V	900 mAh	Ni-Cd	350	60	220	30	A
EXIT-02-J	3 W	3 h	180 lm	× 8	2.4 V	900 mAh	Ni-Cd	240	60	210	25	A
EXIT-03-J	6 W	3 h	360 lm	× 18	3.6 V	900 mAh	Ni-Cd	340	25	185	65	A



Emergency lights



TRACON							L x W x H (mm)	IP..		
TLBV-18A	8 W	G5 (T5)	1 h	2,4 V	1,5 Ah	Ni-Cd	350 x 117 x 76	IP 65	M	A
TLBV-18M	8 W	G5 (T5)	3 h	2,4 V	5 Ah	Ni-Cd	350 x 117 x 76	IP 65	M	A
TLBV-18NM	8 W	G5 (T5)	3 h	2,4 V	5 Ah	Ni-Cd	350 x 117 x 76	IP 65	NM	A
TLBVLED30	4 W	-	3 h	4,8 V	900 mAh	Ni-Cd	350 x 117 x 76	IP 65	M	A



Warning lamps are meant for lighting of areas in case of power network failure. **Maintained (M-type)** lamps will stay on after a short switchover period, **Not maintained (NM-type)** lamps will switch on after failure of the normal network. Switchover / switch-on time is shorter than 1 second.

TRACON

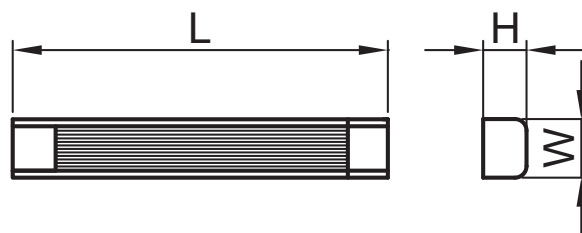
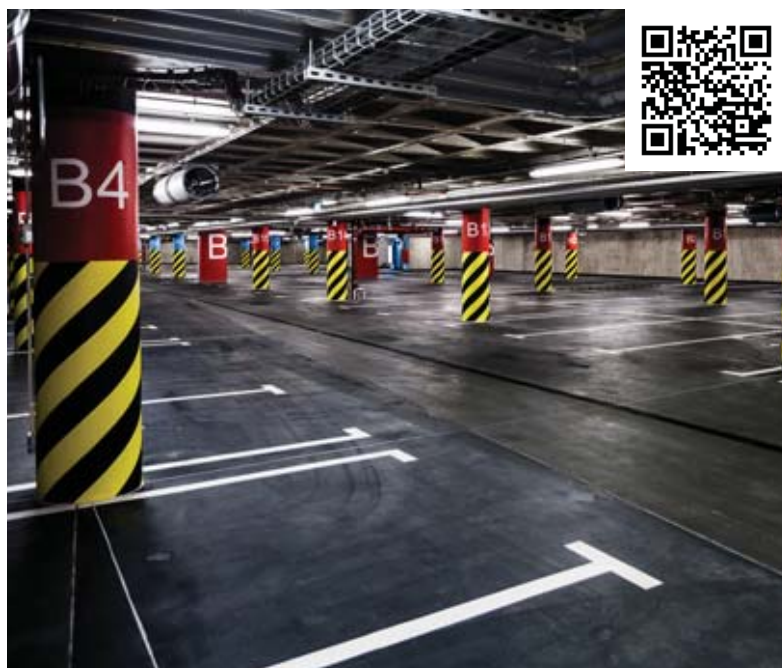


TLBV-18-KJ

Snap-in exit sign for ceiling mount of TLBV-18 luminaries, "SIDE" arrow

TLBV-18-KL

Snap-in exit sign for ceiling mount of TLBV-18 luminaries, "DOWN" arrow

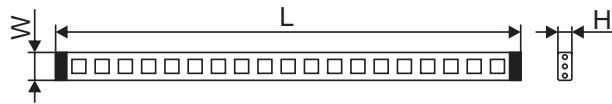
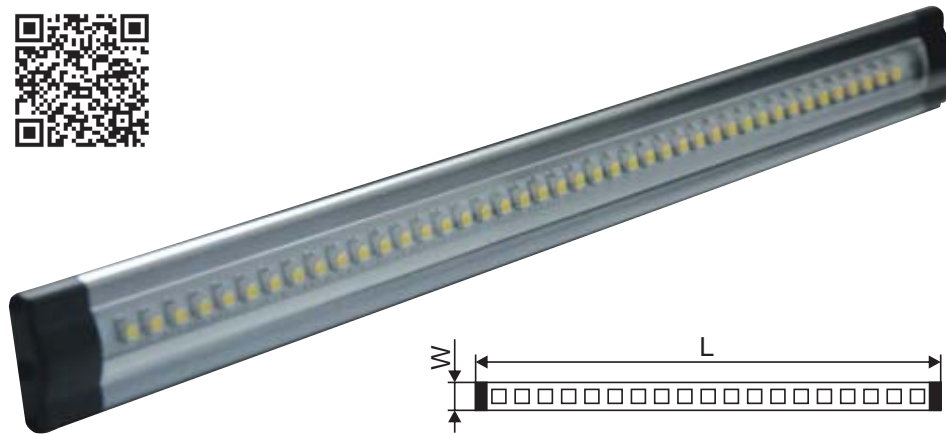


Flat lamp units

12 V DC, 50.000 [h], Ra ≥80, ON-OFF >30.000, SMD LED, Pictograms, E/O

TRACON					L x W x H (mm)		
LLBS5WW	5 W	10 W	420 lm	3.000 K	500 x 29 x 8	72 x SMD3528	A
LLBS5NW	5 W	10 W	470 lm	4.000 K	500 x 29 x 8	72 x SMD3528	A
LLBS5CW	5 W	10 W	470 lm	6.000 K	500 x 29 x 8	72 x SMD3528	A
LLBS11WW	11 W	18 W	800 lm	3.000 K	1000 x 29 x 8	144 x SMD3528	A
LLBS11CW	11 W	18 W	870 lm	6.000 K	1000 x 29 x 8	144 x SMD3528	A

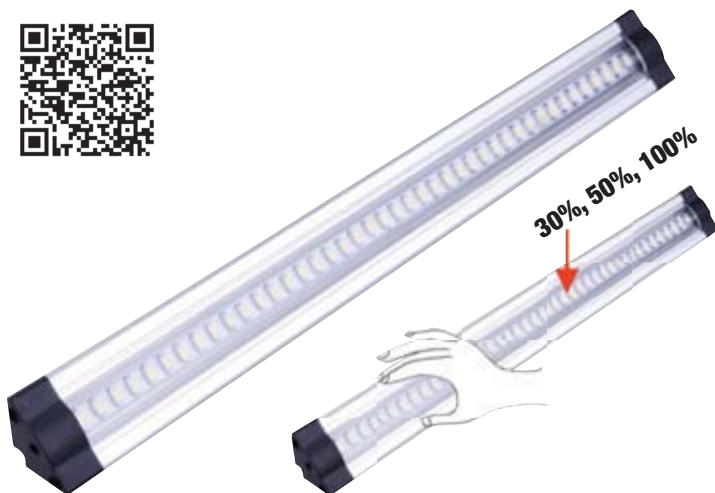
Using the accessory connectors, the flat lamp units can be installed in series both in a straight line or arched. We recommend installation on a flat surface.



LED cabinet lights, metall housing, triangle type

12 V DC, 50.000 [h], Ra ≥80, ON-OFF >30.000, SMD LED, Pictograms, E/O

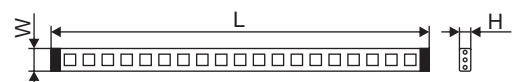
TRACON					L x W x H (mm)		
LSBS5WW	5 W	10 W	420 lm	3.000 K	500 x 32 x 19.7	72 x SMD3528	A
LSBS5CW	5 W	10 W	470 lm	6.000 K	500 x 32 x 19.7	72 x SMD3528	A
LSBS11WW	11 W	18 W	800 lm	3.000 K	1000 x 32 x 19.7	144 x SMD3528	A
LSBS11CW	11 W	18 W	870 lm	6.000 K	1000 x 32 x 19.7	144 x SMD3528	A
LSBS5WWT	5 W	10 W	420 lm	3.000 K	500 x 32 x 19.7	72 x SMD3528	A
LSBS5CWT	5 W	10 W	470 lm	6.000 K	500 x 32 x 19.7	72 x SMD3528	A



The triangular lamp units can be installed in straight line only, using the accessory connector elements. These lamps are recommended for installation in the corners between the wall and furniture.

The triangular lamp units marked with "T" can be connected ON/OFF by touching them with your hand. The delivered light intensity can be controlled by sliding your hand on the lamp surface.


The "touchdim" function cannot be taken away to the next connected light!





Accessories for LED cabinet lights with metall housing

Drivers

TRACON	U_n	
LED-CVD-24W	230 V / 12 V	24 W
LED-CVD-48W	230 V / 12 V	48 W
LED-CVL-24W	230 V / 12 V	24 W
LED-CVL-48W	230 V / 12 V	48 W
LED-CVL-96W	230 V / 12 V	96 W


LED-CVD



LED-CVL



Switches

TRACON	
LBSKK	ON-OFF
LBSKD	ON-OFF TOUCH (30-50-100%)
LBSKT	ON-OFF TOUCH (30-50-100%) + LBSR (option)
LBSR	Remote controller LBSKT

LBSKK




**LSBKD,
LBSKT**



LBSR



Connecting elements

TRACON	
LBSTK	-
LBSC05	L = 0,5 m
LBSC1	L = 1 m
LBSC41	1:4
LBSC61	1:6



Corner
connecto



Branched connec-
tor cable

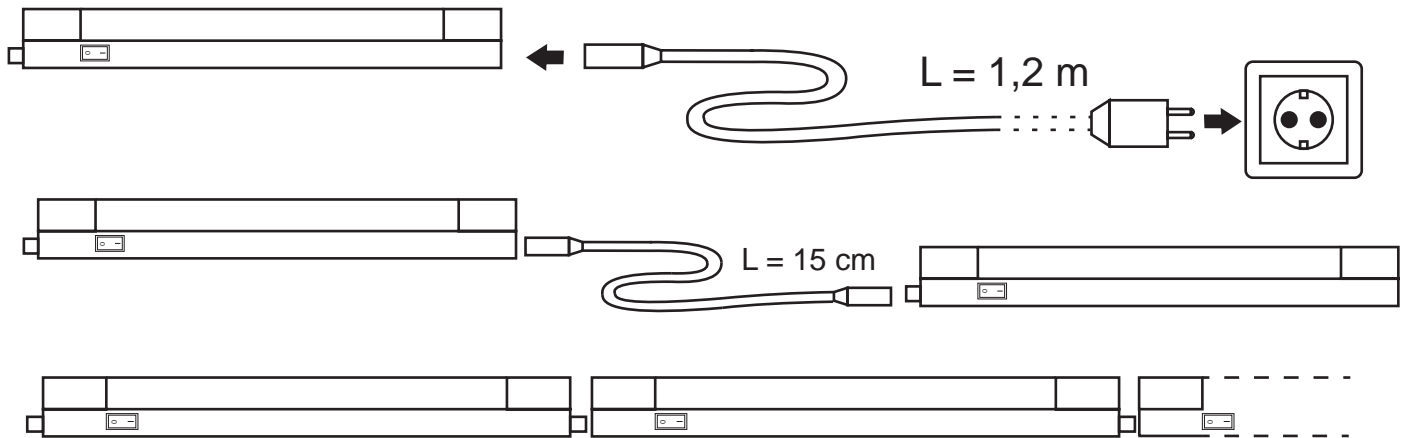
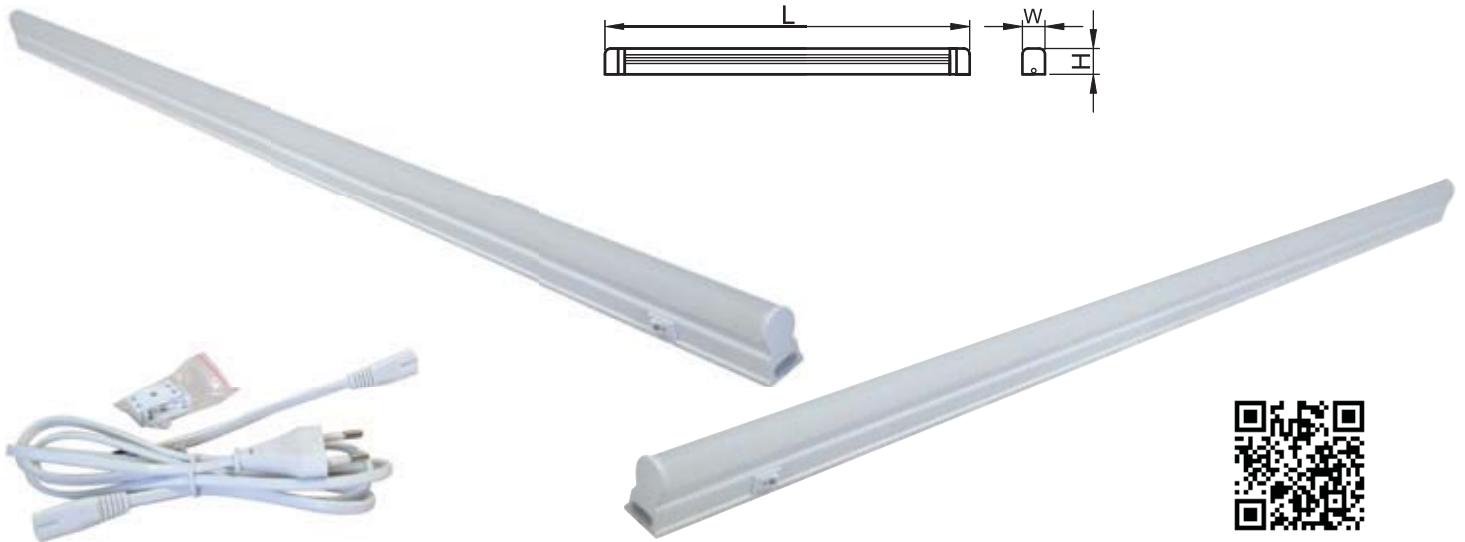


Straight
connector cable

LED cabinet lights, plastic housing

230 V AC	50/60 Hz				IP 20	≥ 80	2 x 0,5mm 1,2 m	ON-OFF >30.000	[h] 30.000	SMD LED	Hg 0 mg	Top < 1s
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TRACON		L E D	[lm]	Tc [K]	L x W x H (mm)	Ei
LBV4W	4 W	5 W	350 lm	4.500 K	300x22x35	A+
LBV7W	7 W	8 W	600 lm	4.500 K	600x22x35	A+
LBV9W	9 W	12 W	800 lm	4.500 K	900x22x35	A+
LBV18W	18 W	24 W	1.600 lm	4.500 K	1200x22x35	A+



Key to electricity

TRACON
.....**ELECTRIC**

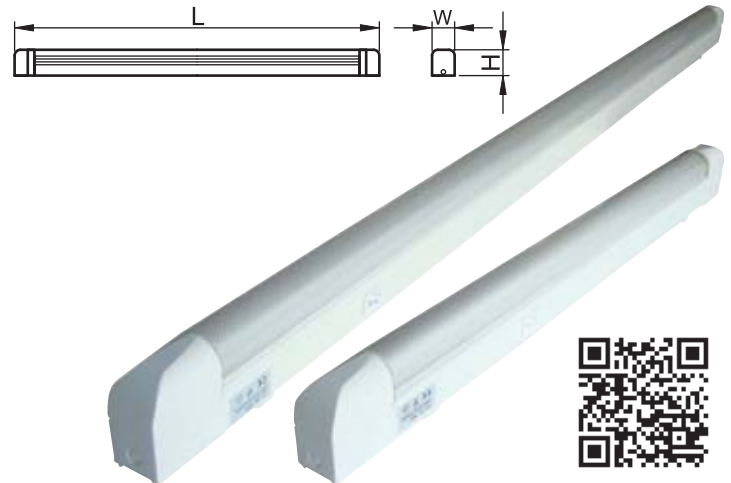
Tracon Key to electricity

Fluorescent lamps for furniture lighting

Pictograms **E/0**

TRACON				Tc [K]	L (mm)	W (mm)	H (mm)	
TLL-10	G13	10 W	T8	6.400 K	412	34	64	A
TLL-15	G13	15 W	T8	6.400 K	516	34	64	A
TLL-18	G13	18 W	T8	6.400 K	669	34	64	A
TLL-30	G13	30 W	T8	6.400 K	973	34	64	A
TLL-36	G13	36 W	T8	6.400 K	1270	34	64	A

The tube is included.

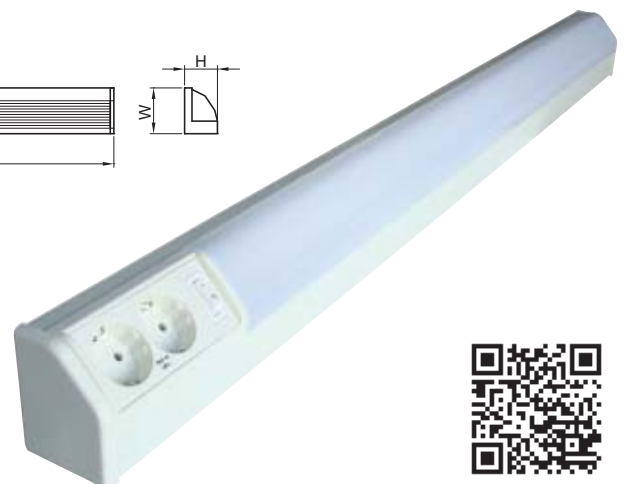
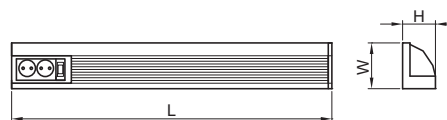


Fluorescent lamps for furniture lighting with two socket outlets

Pictograms **E/0**

TRACON					Tc [K]	L (mm)	W (mm)	H (mm)	
TLFL-10	TLFL-10F	G13	10 W	T8	6.400 K	500	80	60	A
TLFL-15	TLFL-15F	G13	15 W	T8	6.400 K	600	80	60	A
TLFL-18	TLFL-18F	G13	18 W	T8	6.400 K	750	80	60	A
TLFL-30	TLFL-30F	G13	30 W	T8	6.400 K	1060	80	60	A

The tube is included.



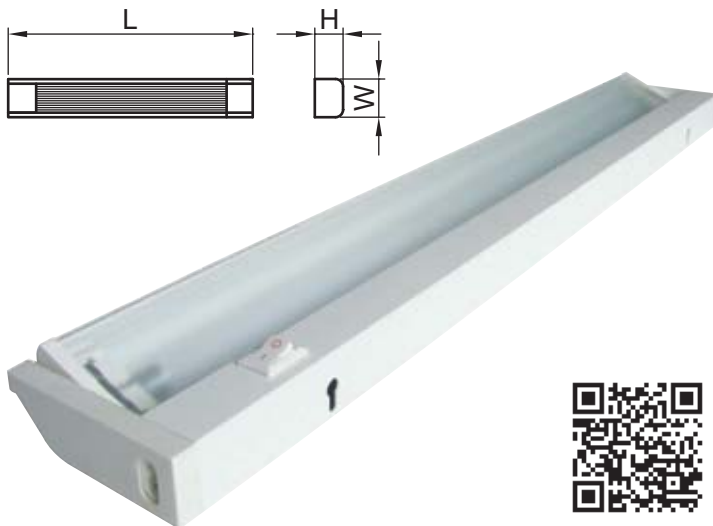
**RELEVANT STANDARD
EN 60598**

Fluorescent lamps for furniture lighting with turnable light source

Pictograms **E/0**

TRACON					L (mm)	W (mm)	H (mm)	
FLF-T5-8W	G5	8 W	T5	6.400 K	363	100	35	A
FLF-T5-14W	G5	14 W	T5	6.400 K	625	100	35	A
FLF-T5-21W	G5	21 W	T5	6.400 K	923	100	35	A
FLF-T5-28W	G5	28 W	T5	6.400 K	1225	100	35	A

The tube is included.



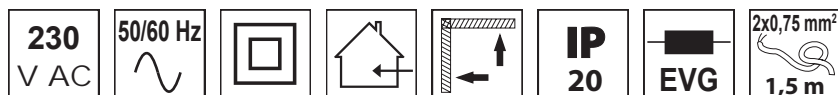
Turnable furniture lamp with LED light source

Pictograms **E/0**

TRACON			L (mm)	W (mm)	H (mm)	
FLF-LED-20	3,5 W	× 20	360	100	35	A



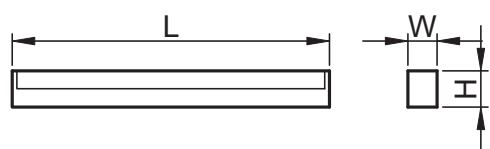
Fluorescent lamps for furniture lighting to be installed in series



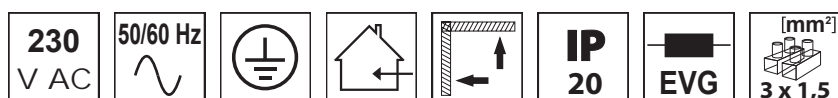
TRACON				Tc [K]	L (mm)	W (mm)	H (mm)	
FLT58W	G5	8 W	T5	6.400 K	358	22	42	A
FLT513W	G5	13 W	T5	6.400 K	585	22	42	A
FLT521W	G5	21 W	T5	6.400 K	915	22	42	A
FLT528W	G5	28 W	T5	6.400 K	1215	22	42	A
FLT535W	G5	35 W	T5	6.400 K	1515	22	42	A

These lamps are remarkable for their small dimensions. The lamp bodies can be connected in rows by tongues and grooves or by cables of 15 cm length. The lamp bodies are fixed by clamping into plastic frames. All lamps are equipped with electronic ballast. The tube is included.

**RELEVANT STANDARD
EN 60598**

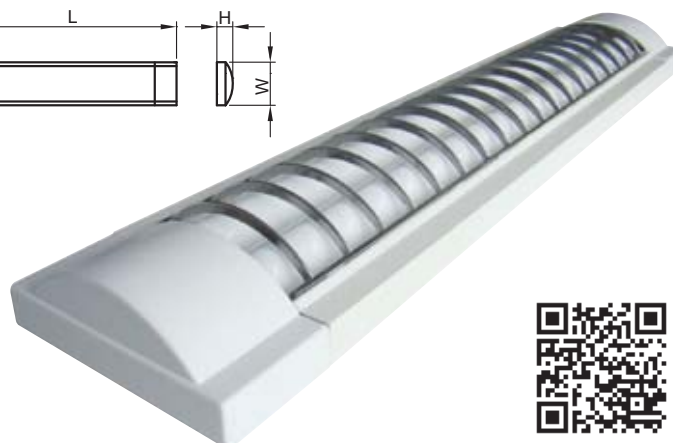
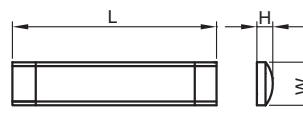
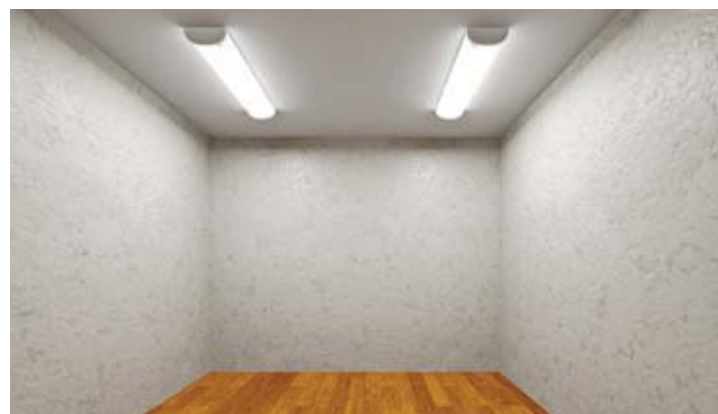


Ceiling-mounted fluorescent lamps with T8 tubes



TRACON				Tc [K]	L (mm)	W (mm)	H (mm)	
MFL-T8-115W	G13	1 × 15 W	T8	6.400 K	505	114	45	A
MFL-T8-118W	G13	1 × 18 W	T8	6.400 K	655	114	45	A
MFL-T8-130W	G13	1 × 30 W	T8	6.400 K	960	114	45	A
MFL-T8-136W	G13	1 × 36 W	T8	6.400 K	1265	114	45	A
MFL-T8-218W	G13	2 × 18 W	T8	6.400 K	655	140	50	A
MFL-T8-230W	G13	2 × 30 W	T8	6.400 K	960	140	50	A
MFL-T8-236W	G13	2 × 36 W	T8	6.400 K	1265	140	50	A

The tube is included.

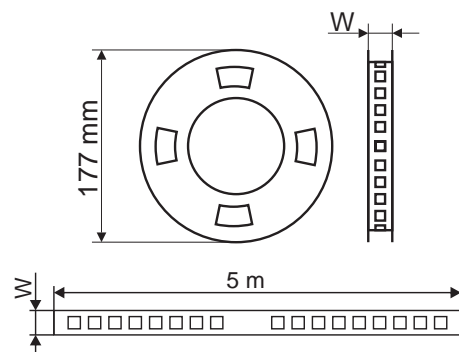


LED stripes

12 V DC	[h] 50.000	ON-OFF >30.000		SMD LED			Hg 0 mg	T_{up} < 1s		Pictograms	E/0
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TRACON	[W]	[lm]	W	T _c [K]	IP..	L E D
LED-SZ-48-WW	4,8 W / m	180 lm / m	8 mm	3.000 K	IP 20	60 × SMD3528 / m
LED-SZ-48-CW	4,8 W / m	200 lm / m	8 mm	6.000 K	IP 20	60 × SMD3528 / m
LED-SZK-48-WW	4,8 W / m	180 lm / m	8 mm	3.000 K	IP 65	60 × SMD3528 / m
LED-SZK-48-NW	4,8 W / m	180 lm / m	8 mm	4.000 K	IP 65	60 × SMD3528 / m
LED-SZK-48-CW	4,8 W / m	200 lm / m	8 mm	6.000 K	IP 65	60 × SMD3528 / m
LED-SZK-72-WW	7,2 W / m	310 lm / m	10 mm	3.000 K	IP 65	30 × SMD5050 / m
LED-SZK-72-NW	7,2 W / m	330 lm / m	10 mm	4.000 K	IP 65	30 × SMD5050 / m
LED-SZK-72-CW	7,2 W / m	320 lm / m	10 mm	6.000 K	IP 65	30 × SMD5050 / m
LED-SZK-72-RGB	7,2 W / m	–	10 mm	RGB	IP 65	30 × SMD5050 / m
LED-SZ-96-WW	9,6 W / m	360 lm / m	8 mm	3.000 K	IP 20	120 × SMD3528 / m
LED-SZ-96-CW	9,6 W / m	400 lm / m	8 mm	6.000 K	IP 20	120 × SMD3528 / m
LED-SZ-144-WW	14,4 W / m	600 lm / m	10 mm	3.000 K	IP 20	60 × SMD5050 / m
LED-SZ-144-CW	14,4 W / m	640 lm / m	10 mm	6.000 K	IP 20	60 × SMD5050 / m
LED-SZ-144-RGB	14,4 W / m	–	10 mm	RGB	IP 20	60 × SMD5050 / m
LED-SZTR-144-WW	14,4 W / m	330 lm / m	10 mm	3.000 K	IP 20	30 × SMD5050 / m
LED-SZTR-144-CW	14,4 W / m	360 lm / m	10 mm	6.000 K	IP 20	30 × SMD5050 / m
LED-SZK-144-WW	14,4 W / m	600 lm / m	10 mm	3.000 K	IP 65	60 × SMD5050 / m
LED-SZK-144-NW	14,4 W / m	330 lm / m	10 mm	4.000 K	IP 65	60 × SMD5050 / m
LED-SZK-144-CW	14,4 W / m	640 lm / m	10 mm	6.000 K	IP 65	60 × SMD5050 / m
LED-SZK-144-RGB	14,4 W / m	–	10 mm	RGB	IP 65	60 × SMD5050 / m

The LED stripes are basically used for decoration purposes; by using these stripes the decorative lighting can be completed fast, cheap and easy at home, in shops and in public areas as well.



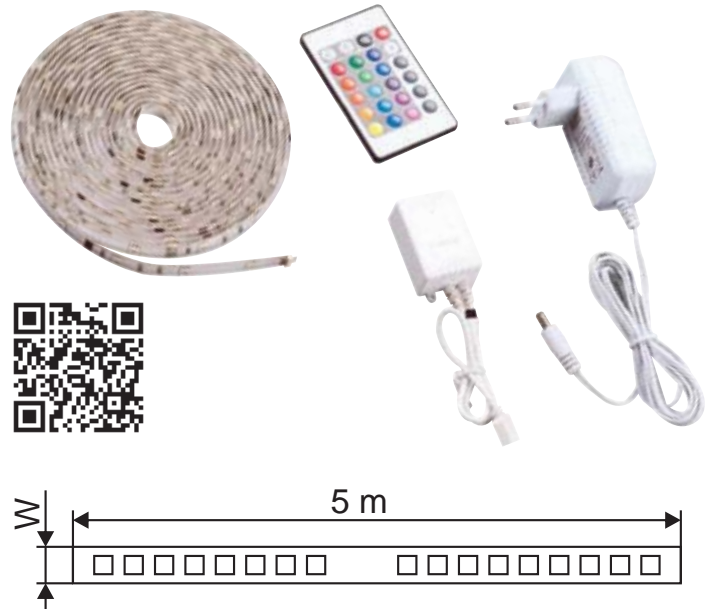
LED stripe sets

12 V DC	50.000 [h]	ON-OFF >30.000	III	SMD LED	120°	Hg 0 mg	T _{up} < 1s	Pictograms	E/O
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TRACON				T _c [K]	IP..	
LED-SET-B-WW	4,8 W / m	120 lm / m	8 mm	3.000 K	IP 20	30 × SMD3528 / m
LED-SET-K-RGB	14,4 W / m	450 lm / m	10 mm	RGB	IP 65	60 × SMD5050 / m

LED stripe sets Our LED stripes are available in sets. These sets are containing all elements for proper operation so the installation is easy and fast.

The main technical parameters same as for LED stripes.



Miniature LED controls

III		IP 20	12-24 V DC
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Pictograms	E/O
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TRACON	U _n	I _n
LED-RF-1	12-24 VDC	12 A

TRACON	U _n	I _n
LED-RF-2	12-24 VDC	12 A

Controlled parameters

Pushbuttons on the control unit: ON/OFF, light intensity, pre-programmed plays of light, speed regulation

Controlled parameters

Radio-frequency remote controller: ON/OFF, light intensity, pre-programmed plays of light, speed regulation



By use of **LED-RF** controls, the LED tapes are suitable for pre-programmed plays of light.

The controls shall be included in the driver's 12 – 24 VDC circuit, between the tape and the driver. The **LED-RF-1** controls can be programmed by their own pushbuttons. The **LED-RF-2** version is suited for remote control by a radio-frequency accessory unit; the remote control unit needs not to "see" the receptor unit. One control unit is suited to control LED tapes up to 5 m length.

RGB LED controls

50.000 [h]
 IP 20
 12-24 V DC

Pictograms **E/O**

TRACON	U _n			IP..
LED-RFRGB-72W	12-24 VDC	72 W	RGB	IP 20
LED-RFRGB-144W	12-24 VDC	144 W	RGB	IP 20



The RGB LED tapes are suited for plays of coloured light, programmed by LED RF control units. The controls shall be included in the driver's 12 – 24 VDC circuit, between the tape and the driver. Control is achieved by a remote control radio-frequency unit. The remote control unit needs not to "see" the receptor unit. One control unit is suited to control LED tapes up to 5 m length.

LED drivers

220-240 V AC
 50/60 Hz
 IP 20

Pictograms **E/O**

TRACON		IP..	I _n	L×W×H
LED-CV-20W	20 W	IP 20	1,3 A	163×41×14,7 mm
LED-CV-30W	30 W	IP 20	2,5 A	223×40,5×18,2 mm
LED-CV-50W	50 W	IP 20	4,2 A	120×50×33 mm
LED-CV65-50W	50 W	IP 65	2,5 A	178×70×43 mm
LED-CV65-100W	100 W	IP 65	2 × 4,2 A	198×70×43 mm

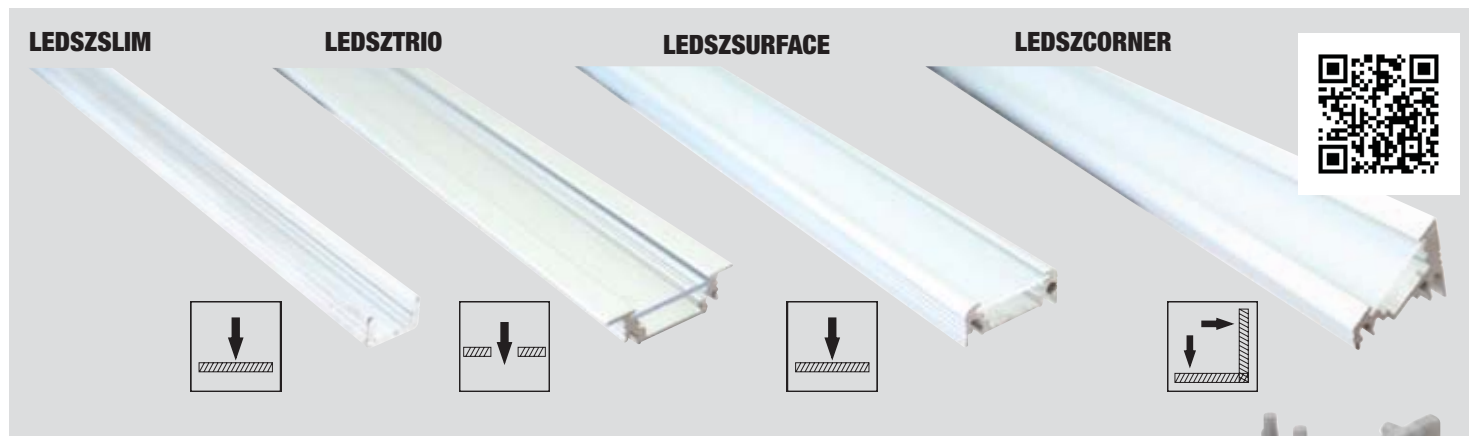
LED-CV65-..








For proper operation of LED with 12 V DC rated voltage a suitable 230 VAC / 12 VDC driver has to be used according to the type of the LED. The next table below helps the user to select the proper driver.



Aluminum profiles for LED stripes



TRACON				
LEDSZSLIM	8 mm	1 m	VLSLIM	LEDSZBSLO
LEDSZTRIO	10 mm	1 m	VLTRIO	LEDSZBCTO; LEDSZBCTT
LEDSZSURFACE	10 mm	1 m	VLSURFACE	LEDSZBCTO; LEDSZBCTT
LEDSZCORNER	10 mm	1 m	VLCORNER	LEDSZBCTO; LEDSZBCTT



We recommend using aluminum profiles for LED strips to ensure the optimal operation conditions and long lifetime. Using this profiles not only the heat dissipation of strips are better but their outlook is more aesthetic. The products having IP20 protection so they cannot increase the protection of strips installed inside the profiles! The profiles are available in 1 m length and have no holes for installation on the bottom for easier size cutting. These holes have to bore by the user according to the installation place. The stripe have to be placed on the bottom of the profile, the cover can slide in to the grooves at the top.

LED stripe accessories

TRACON	Connection method	Characteristics
LSZT8	Soldering-free connection of single-colour LED stripes	for 8 mm stripes;
LSZT10		for 10 mm stripes
LSZTC8	Soldering-free connection of single-colour LED stripes with conductor wire	for 8 mm stripes, with 15 cm wire
LSZTC10		for 10 mm stripes, with 15 cm wire
LSZTRGB	Soldering-free connection of RGB LED stripes	for RGB stripes
LSZTCRGB	Soldering-free connection of RGB LED stripes with conductor wire	for RGB stripes with 15 cm wire
LSZJF55	Connecting element between LED stripes and drivers	5,5 mm JACK connector tap / screw
LSZJM55		5,5 mm JACK connector plug / screw

For easier installation of the LED bands, various accessory devices are offered.

They enable connections of bands without soldering, as well as connection to the drivers.



Let us make our light sources more attractive!

– Finally a **world's first** on the Hungarian market!



The uninterrupted technical progress has banned the traditional incandescent lamps from the market. The compact fluorescent lamps have slowly-slowly entered our households. Their disadvantages - slow warm-up, not very aesthetic design - have however sustained the nostalgia after our good old incandescent bulbs. Nowadays the stormy progress in LED technology has opened new horizons in front of the lighting technique.

Due to their large sizes, narrow radiation angles and high prices the early LED light sources were unable to compete in the households with the incandescent bulbs.

However, all these disadvantages could be newly eliminated thanks to some clever “cosmetic” innovations.

LED modules generate lots of heat. Therefore, the LED light source needs large cooling surfaces, i.e. the product will be large itself, and the radiation angle will be narrowed.

All these disadvantages are eliminated by an innovation - **oil cooling** - first presented on the world market by TRACON.

By immersion of the LED module into an oil bath optimal heat transfer is ensured along with normal dimensions of the product. This solution enables manufacturing of LED light sources not larger than the traditional incandescent bulbs, but with substantially less power consumption. The light is scattered in the oil bath, i.e. the radiation angle is substantially widened. The combination of the oil cooling with an opalescent bulb yields a uniform and aesthetic illumination.

The oil used in the bulbs is harmless, similar to the products used in the cosmetic industry.

The bulbs are made of shatterproof plastic material.

This is the **FITLamp+** family of light sources, available both in spherical (**LOA45**) or candle-like (**LOC**) shape.

Contact us! It is well worth trying!

TRACON Electric, specialist of the LED lighting – eng.traconelectric.com

For more information contact our resellers or visit our web-shop.

LED light source with oil cool

230 V AC
50/60Hz

 ≥80
 50.000 [h]
ON-OFF >25.000
SMD LED
Hg 0 mg
 T_{up} < 1s
 360°



TRACON					T _c [K]		D × L	
LOCE143WW	E14	3 W	30 W	300 lm	3.000 K	360°	35 × 95 mm	A+
LOCE143NW	E14	3 W	30 W	300 lm	4.500 K	360°	35 × 95 mm	A+
LOCE144WW	E14	4 W	40 W	400 lm	3.000 K	360°	35 × 95 mm	A+
LOCE144NW	E14	4 W	40 W	400 lm	4.500 K	360°	35 × 95 mm	A+
LOGE144WW	E14	4 W	40 W	400 lm	3.000 K	360°	38 × 80 mm	A+
LOGE144NW	E14	4 W	40 W	400 lm	4.500 K	360°	38 × 80 mm	A+
LOA45E276WW	E27	6 W	50 W	550 lm	3.000 K	360°	45 × 90 mm	A+
LOA45E276NW	E27	6 W	50 W	550 lm	4.500 K	360°	45 × 90 mm	A+
LOA45E278WW	E27	8 W	60 W	700 lm	3.000 K	360°	55 × 90 mm	A+
LOA45E278NW	E27	8 W	60 W	700 lm	4.500 K	360°	55 × 90 mm	A+
LOA55E2710WW	E27	10 W	75 W	900 lm	3.000 K	360°	55 × 90 mm	A+
LOA55E2710NW	E27	10 W	75 W	900 lm	4.500 K	360°	55 × 90 mm	A+



LOGE14..

Special oil used in the cosmetic industry serves for cooling the LED light source, best suited for this purpose:

- outstanding thermal conductivity;
- non-corrosive;
- environment friendly;
- non-inflammable.



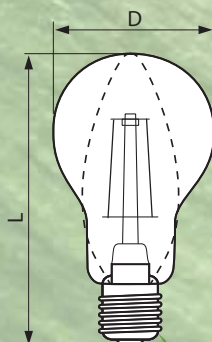
LOA55..

LOCE14..

LASER WELDING TECHNOLOGY!



LOA45..



ENERG Y IJA IE IA
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A⁺
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 A
 B
 C
 D
 E



COG LED light sources

230 V AC	50/60 Hz		$Ra \geq 80$	20.000 [h]	ON-OFF >20.000	COG LED	Hg 0 mg	$T_{up} < 1s$	360°	Pictograms	E/0
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TRACON		[W]	LED	[lm]	T_c [K]	$[\circ]$	D x L	
COGP452W	E14	2 W	25 W	200 lm	3.000 K	360°	45 x 73 mm	P45 A+
COGC372W	E14	2 W	25 W	200 lm	3.000 K	360°	37 x 100 mm	C37 A+
COGA604W	E27	4 W	40 W	400 lm	3.000 K	360°	60 x 107 mm	A60 A+
COGA606W	E27	6 W	60 W	600 lm	3.000 K	360°	60 x 107 mm	A60 A+



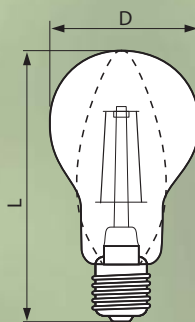
COG technologie

Due to the LED chips placed on special glass plates these light sources generate energy-saving illumination in a way similar to the traditional incandescent lamps.

In the COG (**Chip On Glass**) LED light sources the chips are placed on a glass surface. This way luminous glass sticks are created with practically all-round light emission.



COGP452W



COGC372W

ENERG Y IJA
IE IA
енергия • ενεργεια

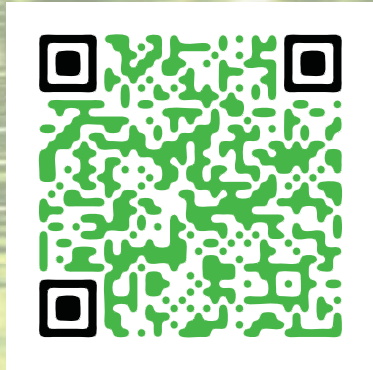
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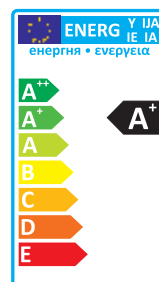
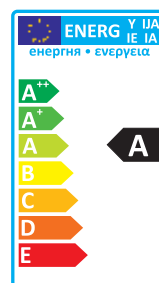
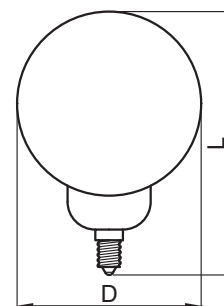
TRACON
COGA606W
230V, 50-60Hz, 6W
2700K, 600lm, 45mA

COGA604W
COGA606W



LED lamps with globe shape

TRACON									
LMG453W	E14		3 W	20 W	220 lm	2.700 K	250°	45 × 70 mm	A+
LMG455W	E14		5 W	40 W	370 lm	2.700 K	250°	45 × 78 mm	A+
LMG455NW	E14		5 W	40 W	380 lm	4.000 K	250°	45 × 78 mm	A+
LG454W	E27		4 W	20 W	250 lm	2.700 K	250°	45 × 70 mm	A+
LG455W	E27		5 W	40 W	350 lm	2.700 K	250°	45 × 70 mm	A+
LG455NW	E27		5 W	40 W	350 lm	4.500 K	250°	45 × 70 mm	A+
LA555W	E27		5 W	40 W	400 lm	2.700 K	250°	50 × 92 mm	A+
LA608W	E27		8 W	60 W	520 lm	2.700 K	250°	60 × 110 mm	A+
LA608NW	E27		8 W	60 W	560 lm	4.000 K	250°	60 × 110 mm	A+
LA609W	E27		9 W	60 W	720 lm	2.700 K	250°	60 × 110 mm	A+
LA6511W	E27		11 W	65 W	880 lm	2.700 K	250°	65 × 125 mm	A+
LA6511NW	E27		11 W	65 W	900 lm	4.000 K	250°	65 × 125 mm	A+
LA6512W	E27		12 W	70 W	960 lm	2.700 K	200°	65 × 125 mm	A+
LA6015W	E27		15 W	75 W	1.055 lm	2.700 K	300°	60 × 110 mm	A
LA8012W	E27		12 W	75 W	900 lm	2.700 K	200°	95 × 128 mm	A



LED lamps with candle shape

230 V AC	50/60 Hz		$Ra \geq 80$	30.000 [h]	ON-OFF >30.000	SMD LED	Hg 0 mg	$T_{up} < 1s$	250°		E/0
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TRACON					T_c [K]	$[\circ]$	D x L	
LGYT5W	E14	5 W	40 W	370 lm	2.700 K	250°	38 x 106 mm	A+
LGY5W	E14	5 W	40 W	370 lm	2.700 K	250°	38 x 106 mm	A+



LED reflector lamps

230 V AC	50/60 Hz		$Ra \geq 80$	30.000 [h]	ON-OFF >30.000	SMD LED	Hg 0 mg	$T_{up} < 1s$	100°		E/0
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TRACON					T_c [K]	$[\circ]$	D x L	
LR506W	E14	6 W	40 W	350 lm	2.700 K	100°	50 x 84 mm	A+
LR638W	E27	8 W	60 W	510 lm	2.700 K	100°	63 x 101 mm	A+



LED power spot lamps

230 V AC	12 V AC/DC	50/60 Hz				ON-OFF >15,000	SMD LED	Hg 0 mg		
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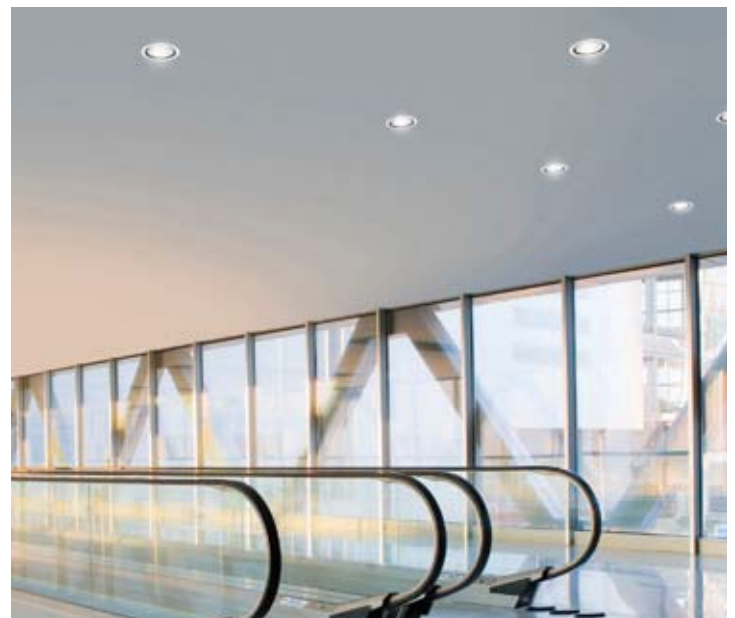
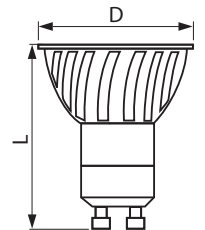
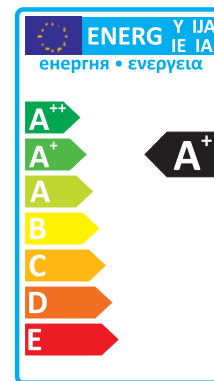
TRACON		U _n				T _c [K]		D × L	
LMR165WW	MR16/G5.3	12 V AC/DC	5 W	35 W	300 lm	2.700 K	40°	50 × 47 mm	A+
LMR165CW	MR16/ G5.3		5 W	35 W	330 lm	6.500 K	40°	50 × 47 mm	A+
LMR167WW	MR16/G5.3		7 W	50 W	450 lm	2.700 K	40°	50 × 49 mm	A+
LMR167CW	MR16/G5.3		7 W	50 W	500 lm	6.500 K	40°	50 × 49 mm	A+
LGU105WW	GU10	230 V AC	5 W	35 W	300 lm	2.700 K	40°	50 × 50 mm	A+
LGU105NW	GU10		5 W	35 W	315 lm	4.000 K	40°	50 × 50 mm	A+
LGU105CW	GU10		5 W	35 W	330 lm	6.500 K	40°	50 × 50 mm	A+
LGU107WW	GU10		7 W	50 W	450 lm	2.700 K	40°	50 × 55 mm	A+
LGU107NW	GU10		7 W	50 W	475 lm	4.000 K	40°	50 × 55 mm	A+
LGU107CW	GU10		7 W	50 W	500 lm	6.500 K	40°	50 × 55 mm	A+
LE145WW	E14		5 W	35 W	300 lm	2.700 K	40°	50 × 74 mm	A+
LE145CW	E14	5 W	35 W	330 lm	6.500 K	40°	50 × 74 mm	A+	
LE147WW	E14	7 W	50 W	450 lm	2.700 K	40°	50 × 74 mm	A+	
LE147CW	E14	7 W	50 W	480 lm	6.500 K	40°	50 × 74 mm	A+	
LE275WW	E27	5 W	35 W	300 lm	2.700 K	40°	50 × 64 mm	A+	
LE275CW	E27	5 W	35 W	330 lm	6.500 K	40°	50 × 64 mm	A+	
LE277WW	E27	7 W	50 W	450 lm	2.700 K	40°	50 × 64 mm	A+	
LE277CW	E27	7 W	50 W	480 lm	6.500 K	40°	50 × 64 mm	A+	



LE27..



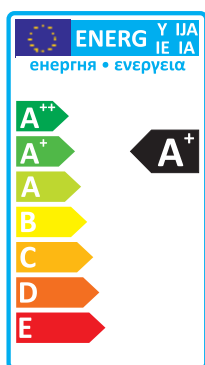
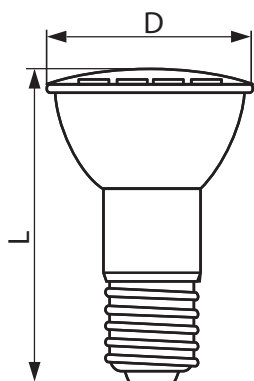
LMR16



SMD LED spot lamp (15 × LED)

230 V AC	12 V AC/DC	50/60 Hz		≥80	30.000 [h]	>15.000	SMD LED	Hg 0 mg	T _{up} <1s	Pictograms	E/0
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TRACON		U _n	[W]		[lm]	T _c [K]	[°]	D × L	
SMD-E14-15-WW	E14	230 V AC	4 W	35 W	300 lm	3.000 K	120°	50 × 74 mm	A+
SMD-E14-15-CW	E14		4 W	35 W	320 lm	6.400 K	120°	50 × 74 mm	A+
SMD-E27-15-WW	E27		4 W	35 W	300 lm	3.000 K	120°	50 × 72 mm	A+
SMD-E27-15-CW	E27		4 W	35 W	320 lm	6.400 K	120°	50 × 72 mm	A+
SMD-GU10-15-WW	GU10		4 W	35 W	300 lm	3.000 K	120°	50 × 55 mm	A+
SMD-GU10-15-CW	GU10		4 W	35 W	320 lm	6.400 K	120°	50 × 55 mm	A+
SMD-GU10-15-NW	GU10		4 W	35 W	310 lm	4.000 K	120°	50 × 55 mm	A+
SMD-MR16-15-WW	MR16/G5.3	12 V AC/DC	4 W	35 W	300 lm	3.000 K	120°	50 × 45 mm	A+
SMD-MR16-15-CW	MR16/G5.3	4 W	35 W	320 lm	6.400 K	120°	50 × 45 mm	A+	



SMD-MR16-15...

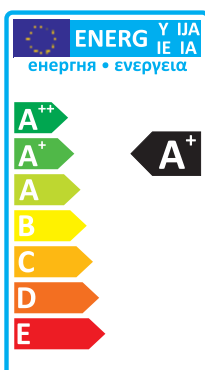
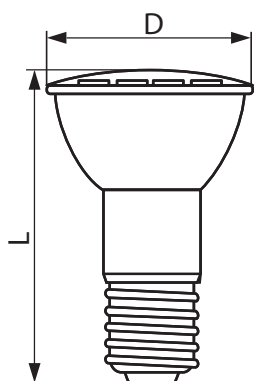


SMD-GU10-15...

SMD LED spot lamp (12 × LED)

230 V AC	12 V AC/DC	50/60 Hz		≥80	30.000 [h]	>15.000	SMD LED	Hg 0 mg	T _{up} <1s
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TRACON		U _n	[W]		[lm]	T _c [K]	[°]	D × L	
SMD-E14-12-WW	E14	230 V AC	3 W	20 W	210 lm	3.000 K	120°	50 × 74 mm	A+
SMD-E14-12-CW	E14		3 W	20 W	235 lm	6.400 K	120°	50 × 74 mm	A+
SMD-E27-12-WW	E27		3 W	20 W	210 lm	3.000 K	120°	50 × 72 mm	A+
SMD-E27-12-CW	E27		3 W	20 W	235 lm	6.400 K	120°	50 × 72 mm	A+
SMD-GU10-12-WW	GU10		3 W	20 W	210 lm	3.000 K	120°	50 × 55 mm	A+
SMD-GU10-12-CW	GU10		3 W	20 W	235 lm	6.400 K	120°	50 × 55 mm	A+
SMD-GU10-12-NW	GU10		3 W	20 W	210 lm	4.000 K	120°	50 × 55 mm	A+
SMD-MR16-12-WW	MR16/G5.3	12 V AC/DC	3 W	20 W	210 lm	3.000 K	120°	50 × 45 mm	A+
SMD-MR16-12-CW	MR16/G5.3	3 W	20 W	235 lm	6.400 K	120°	50 × 45 mm	A+	



SMD-E14-12...



SMD-E27-12...

COB LED lamps

230 V AC	50/60 Hz		Ra ≥80	30.000 [h]	ON-OFF >30.000	COB LED	Hg 0 mg			Pictograms	E/0
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TRACON					Tc [K]	[°]	D x L	
COBGU105WW	GU10	5 W	35 W	350 lm	2.700 K	40°	50 x 53 mm	A+
COBGU105CW	GU10	5 W	35 W	365 lm	6.500 K	40°	50 x 53 mm	A+
COBGU107WW	GU10	7 W	50 W	490 lm	2.700 K	40°	50 x 53 mm	A+
COBGU107CW	GU10	7 W	50 W	511 lm	6.500 K	40°	50 x 53 mm	A+



Dimmable COB LED light sources

230 V AC	50/60 Hz		Ra ≥80	30.000 [h]	ON-OFF >30.000	COB LED	Hg 0 mg		
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TRACON					Tc [K]	[°]	D x L	
COBDGU105WW	GU10	5 W	35 W	350 lm	2.700 K	40°	50 x 53 mm	A+
COBDGU105CW	GU10	5 W	35 W	365 lm	6.500 K	40°	50 x 53 mm	A+

Our dimmable LED lamps are identical in their technical parameters to the non-dimmable lamps of the same type, with the only difference that their light intensity can be regulated between 10 ÷ 100% of the rated value, even with traditional dimmers.



COB technology

The COB lamp is one of the latest application of newly developed LED technologies in the general illumination technique.

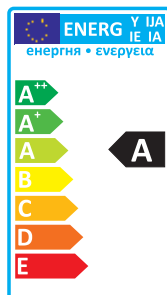
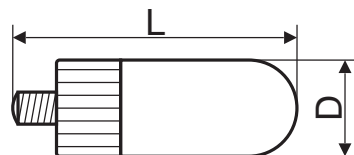
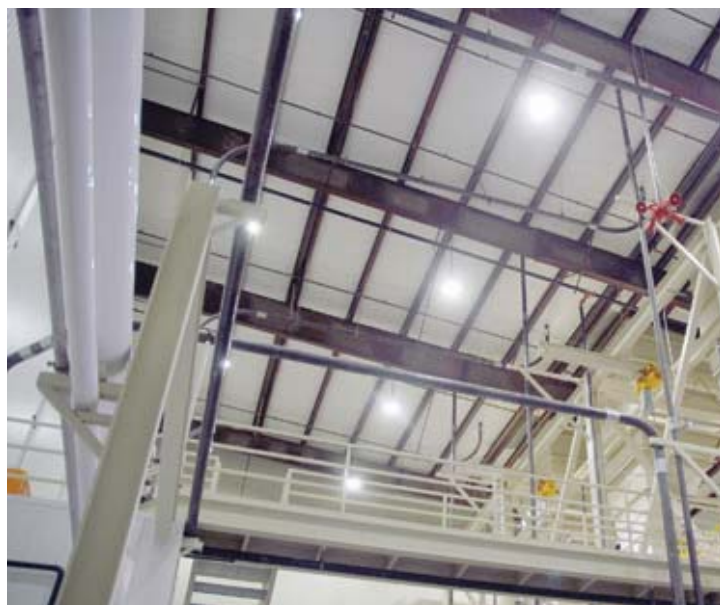
At a variance from the traditional SMD LED, in the COB (Chip On Board) technique the chips are directly placed on the metallic support, next to one-another.

This way, the user will enjoy a light source with uniform and pleasant light emission and longer lifespan.

Industrial LED lamps

230 V AC	50/60 Hz		$R_a \geq 80$	[h] 30.000	ON-OFF >15.000	SMD LED	Hg 0 mg	50% Tup < 1s	360°	Pictograms	E/0
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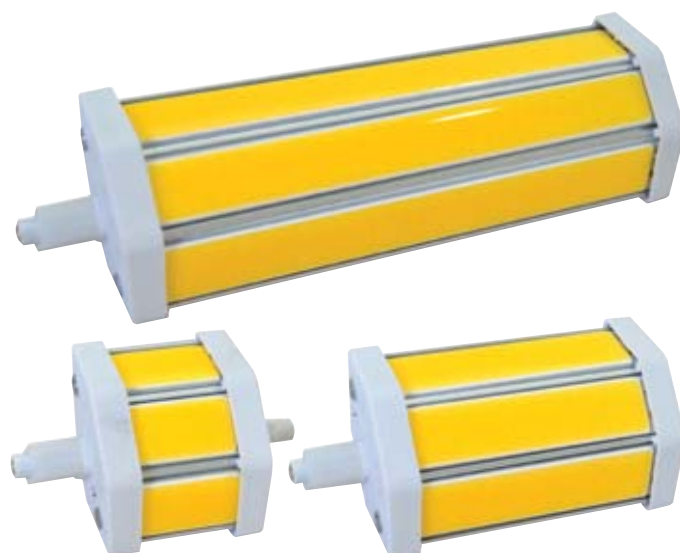
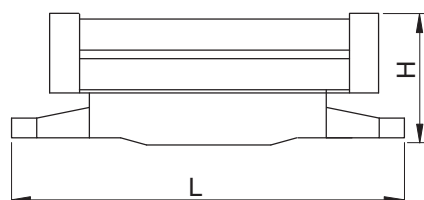
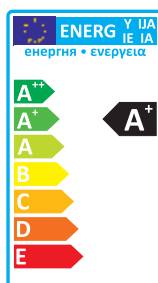
TRACON				[lm]	Tc [K]	[°]	D x L	
LHPE2720NW	E27	20 W	LED	1.600 lm	4.000 K	360°	70 x 142 mm	A
LHPE2725NW	E27	25 W	LED	2.000 lm	4.000 K	360°	70 x 178 mm	A
LHPE4050NW	E40	50 W	LED	4.000 lm	4.000 K	360°	105 x 250 mm	A



LED lamps R7s socket

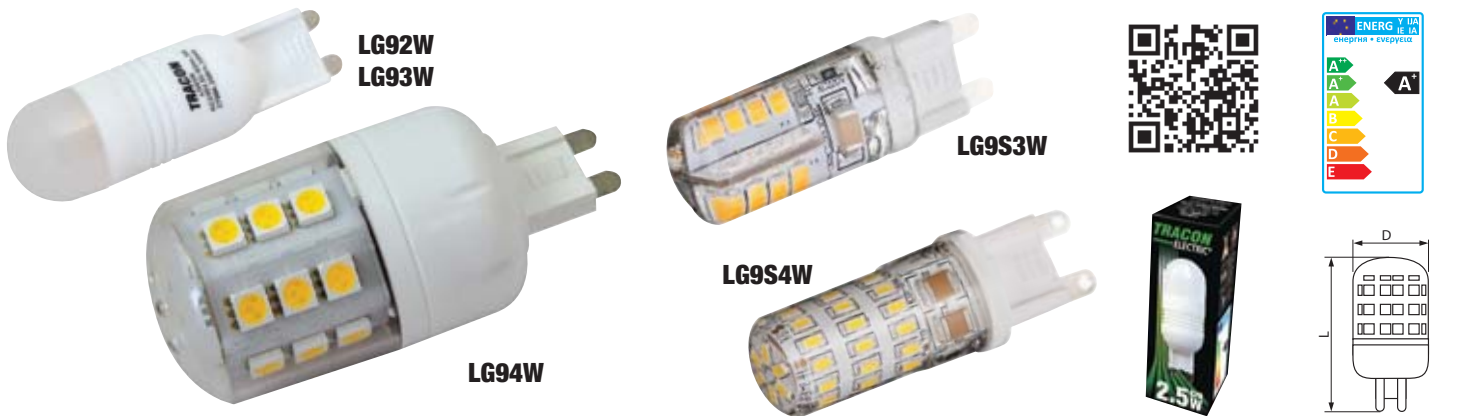
230 V AC	50/60 Hz		$R_a \geq 80$	[h] 30.000	ON-OFF >30.000	SMD LED	Hg 0 mg	50% Tup < 1s	Pictograms	E/0
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TRACON				[lm]	Tc [K]	[°]	D x L	
LR7S785NW	R7s	5 W	LED	350 lm	4.100 K	140°	78x54x35	A+
LR7S1188NW	R7s	8 W	LED	750 lm	4.100 K	140°	118x54x35	A+
LR7S18914NW	R7s	14 W	LED	1.050 lm	4.100 K	140°	189x54x35	A+



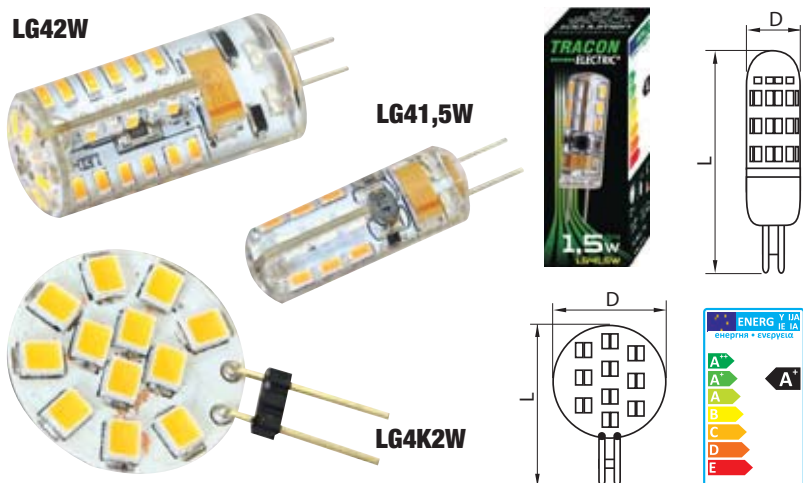
LED lamps G9 socket

TRACON							D x L	
LG92W	G9	2,5 W	10 W	120 lm	2.700 K	230°	16 x 42 mm	A+
LG92NW	G9	2,5 W	10 W	120 lm	4.000 K	230°	16 x 42 mm	A+
LG93W	G9	3 W	15 W	200 lm	2.700 K	160°	18 x 55 mm	A+
LG9S3W	G9	3 W	15 W	180 lm	2.700 K	360°	14 x 51 mm	A+
LG9S3NW	G9	3 W	15 W	180 lm	4.000 K	360°	14 x 51 mm	A+
LG94W	G9	4 W	25 W	320 lm	2.700 K	270°	32 x 70 mm	A+
LG9S4W	G9	4 W	25 W	300 lm	2.700 K	360°	16 x 50 mm	A+
LG9S4NW	G9	4 W	25 W	300 lm	4.000 K	360°	16 x 50 mm	A+



LED lamps G4 socket

TRACON							D x L	
LG41,5W	G4	1,5 W	5 W	100 lm	2.700 K	360°	10 x 35 mm	A+
LG41,5NW	G4	1,5 W	5 W	100 lm	4.000 K	360°	10 x 35 mm	A+
LG42W	G4	2,2 W	10 W	180 lm	2.700 K	360°	16 x 42 mm	A+
LG42NW	G4	2,2 W	10 W	180 lm	4.000 K	360°	16 x 42 mm	A+
LG4K2W	G4	2 W	10 W	140 lm	2.700 K	180°	20 x 32 mm	A+
LG4K2NW	G4	2 W	10 W	140 lm	4.000 K	180°	20 x 32 mm	A+



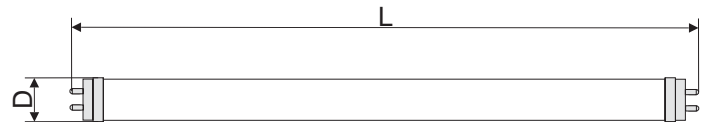
LED tubes



TRACON								
LED-T8-06-10-WW	10 W	18 W	900 lm	600 mm	3.000 K	75 × SMD3022	FIX	A+
LED-T8-06-10-NW	10 W	18 W	1.000 lm	600 mm	4.000 K	75 × SMD3022		A+
LED-T8-06-10-CW	10 W	18 W	950 lm	600 mm	6.200 K	75 × SMD3022		A+
LED-T8-12-22-WW	22 W	36 W	1.850 lm	1.200 mm	3.000 K	165 × SMD3022		A+
LED-T8-12-22-NW	22 W	36 W	1.900 lm	1.200 mm	4.000 K	165 × SMD3022		A+
LED-T8-12-22-CW	22 W	36 W	2.000 lm	1.200 mm	6.200 K	165 × SMD3022		A+
LED-T8-15-25-WW	25 W	58 W	2.100 lm	1.500 mm	3.000 K	195 × SMD3022		A+
LED-T8-15-25-NW	25 W	58 W	2.200 lm	1.500 mm	4.000 K	195 × SMD3022		A+
LED-T8-15-25-CW	25 W	58 W	2.300 lm	1.500 mm	6.200 K	195 × SMD3022		A+
LED-T8-15-30-WW	30 W	58 W	2.800 lm	1.500 mm	3.000 K	225 × SMD3022		A+
LED-T8-15-30-NW	30 W	58 W	2.900 lm	1.500 mm	4.000 K	225 × SMD3022		A+
LED-T8-15-30-CW	30 W	58 W	3.000 lm	1.500 mm	6.200 K	225 × SMD3022		A+
LED-T8R-06-9NW	9 W	18 W	850 lm	600 mm	4.100 K	75 × SMD2835	180°	A+
LED-T8R-12-18NW	18 W	36 W	1.600 lm	1.200 mm	4.100 K	150 × SMD2835		A+
LED-T8R-15-24NW	22 W	58 W	2.100 lm	1.500 mm	4.100 K	180 × SMD2835		A+

The T8 type LED tubes are suited to replacement of the traditional T8 type fluorescent tubes without big modification of the luminaries.

The LED tubes can be placed into luminaries with electronic ballast without any additional part; for luminaries with magnetic ballast an additional short-circuit part has to be used instead of the starter (for tube included).



This discussion took place between buyers and vendors in many shops of lighting articles!

- I have purchased from you a 11 W energy saving bulb, but its light is NOT BRIGHT ENOUGH!



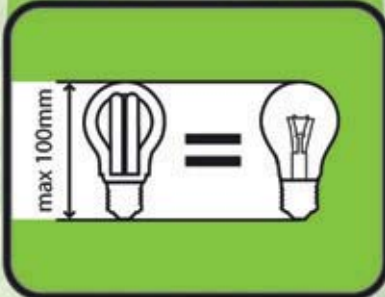
- Buy a 18 W one, it will surely give you more light.
- OK, but it protrudes beyond the shade and dazzles me!



- Then buy another lamp or another bulb of a different shape. NO MORE IDEAS!

FitLamp® solves all such problems!

A Fitlamp bulb is not bigger than a traditional 75 W incandescent bulb!



A FitLamp bulb gives the same amount of light as a traditional 75 W bulb!



You'll love FitLamp, because it's pretty and modern!



**Tracon code:
FL18**

TECHNOLOGY
Compact fluorescent tube with electronic ballast
LIGHT FLUX
1070 Lumen
RATED POWER
18 W
HEIGHT
99 mm
COLOUR TEMPERATURE
2700 °K (warm)
NOMINAL VOLTAGE
230 V (50 Hz)
AVERAGE LIFETIME
6000 hours
COLOUR RESPONSE INDEX (Ra)
82
ENERGY SAVING
80%
SOCKET
E27 / B22

www.fitlamp.eu

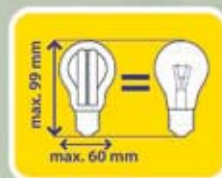
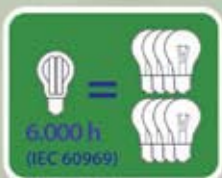
Each display
contains 24
FitLamp® bulbs!
Contact us!



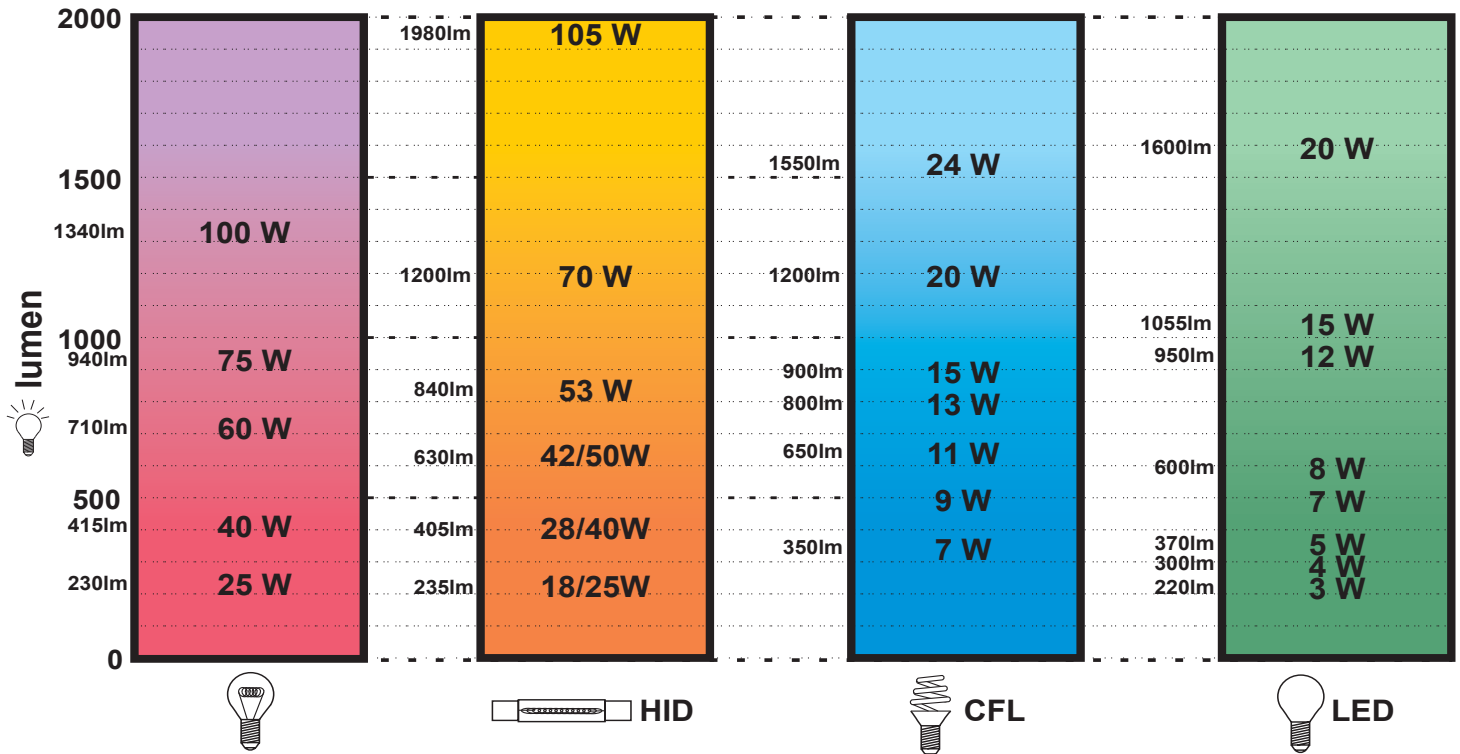
World-wide
NEW
premiere

save
80%
energy

W FITLAMP®

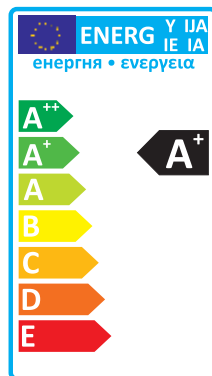


Comparing the lumen of different type of light sources:



Legend

- Energy label: Our compact fluorescent tubes meet the requirements of "A" energy class (except G24d)
- $t_{up} < 60s$; 60%lm: Warm-up time up to 60 % of the full light output
- Ra: color rendering index (100: black body radiator)
- ON-OFF: Number of switching cycles before premature lamp failure
- Hg: mercury content of lamp
- $\cos\phi$: lamp power factor



- $t_{up} < 60s$
- Ra > 82
- ON - OFF > 10.000
- Hg < 2,5 mg
- $\cos\phi > 0,55$
- 60% Lm
- L = 112 mm
- W = 36 mm



Caps and forms of TRALUX® CFL

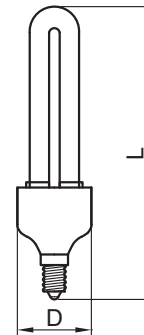
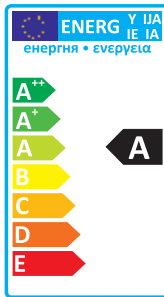
2U	Tube form, 2U	→	E27, G24q, G24d
3U	Tube form, 3U	→	E27
4U	Tube form, 4U	→	E27
GY	Candle form	→	E14
MH	Mini column	→	E14
RS	Short spiral	→	E27
MS	Mini spiral	→	E14, E27, GU10, G9
KS	Small spiral	→	E14, E27
GL	Globe	→	E14, E27
GLH	Pear	→	E14, E27
3U, 4U	Tube	→	R7s
2D	Pretzel	→	GR10q

Caps of TRALUX® compact fluorescent lamps



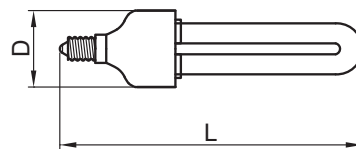
Compact fluorescent lamps, 2U, 3U, 4U

TRACON					I_n			D (mm)	L (mm)	
TLKF-2U-E27-11W	E27	11 W	638 lm	2.700 K	80 mA	6000 h	>8000	45	156	A
TLKF-2U-E27-14W	E27	14 W	812 lm	2.700 K	100 mA	6000 h	>8000	45	156	A
TLKF-3U-E27-9W	E27	9 W	550 lm	2.700 K	65 mA	8000 h	>10000	40	111	A
TLKF-3U-E27-11W	E27	11 W	650 lm	2.700 K	80 mA	8000 h	>10000	40	121	A
TLKF-3U-E27-13W	E27	13 W	800 lm	2.700 K	95 mA	8000 h	>10000	40	131	A
TLKF-3U-E27-15W	E27	15 W	880 lm	2.700 K	105 mA	8000 h	>10000	40	141	A
TLKF-4U-E27-9W	E27	9 W	550 lm	2.700 K	65 mA	8000 h	>10000	48	100	A
TLKF-4U-E27-11W	E27	11 W	650 lm	2.700 K	80 mA	8000 h	>10000	48	105	A
TLKF-4U-E27-15W	E27	15 W	880 lm	2.700 K	105 mA	8000 h	>10000	48	115	A
TLKF-4U-E27-20W	E27	20 W	1100 lm	2.700 K	150 mA	8000 h	>10000	48	125	A



High power compact fluorescent lamp, 4U

TRACON					I_n			D (mm)	L (mm)	
TLKF-HPN-E27-35W	E27	35 W	2250 lm	4.000 K	170 mA	6000 h	>8000	66	227	A



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Compact fluorescent lamps, short spiral

230 V AC 50/60 Hz Hg < 2,5 mg

Pictograms **E/0**

TRACON					In			D (mm)	L (mm)	
TLKF-RS-E27-15W	E27	15 W	900 lm	2.700 K	105 mA	8000 h	>8000	45	112	A
TLKF-RS-E27-20W	E27	20 W	1200 lm	2.700 K	150 mA	8000 h	>8000	55	115	A
TLKF-RS-E27-24W	E27	24 W	1550 lm	2.700 K	180 mA	8000 h	>8000	55	125	A
TLKF-RSN-E27-15W	E27	15 W	900 lm	4.000 K	105 mA	8000 h	>8000	45	112	A
TLKF-RSN-E27-20W	E27	20 W	1200 lm	4.000 K	150 mA	8000 h	>8000	55	115	A
TLKF-RSN-E27-24W	E27	24 W	1550 lm	4.000 K	180 mA	8000 h	>8000	55	125	A













Compact fluorescent lamps, candle (GY)

230 V AC 50/60 Hz Hg < 2,5 mg

Pictograms **E/0**

TRACON					In			D (mm)	L (mm)	
TLKF-GY-E14-9W	E14	9 W	440 lm	2.700 K	65 mA	8000 h	>10000	37	112	A






LED lamps with candle shape




E/49

Compact fluorescent lamps, mini spiral

230 V AC
50/60 Hz
Ra ≥80
T_{up} < 60s
Hg < 2,5 mg



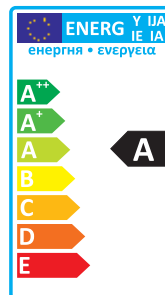
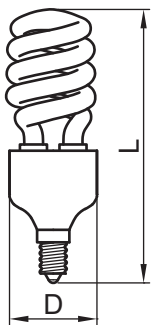
TRACON					In			D (mm)	L (mm)	
TLKF-MS-E14-7W	E14	7 W	320 lm	2.700 K	50 mA	8000 h	>10000	32	90	A
TLKF-MS-E14-9W	E14	9 W	450 lm	2.700 K	65 mA	8000 h	>10000	32	95	A
TLKF-MS-E14-11W	E14	11 W	550 lm	2.700 K	80 mA	8000 h	>10000	36	105	A
TLKF-MS-E14-15W	E14	15 W	800 lm	2.700 K	105 mA	8000 h	>10000	36	112	A
TLKF-MS-E27-7W	E27	7 W	320 lm	2.700 K	50 mA	8000 h	>10000	32	90	A
TLKF-MS-E27-9W	E27	9 W	450 lm	2.700 K	65 mA	8000 h	>10000	32	95	A
TLKF-MS-E27-11W	E27	11 W	550 lm	2.700 K	80 mA	8000 h	>10000	36	105	A
TLKF-MS-E27-15W	E27	15 W	800 lm	2.700 K	105 mA	8000 h	>10000	36	112	A
TLKF-MS-G9-7W	G9	7 W	320 lm	2.700 K	50 mA	8000 h	>10000	32	80	A
TLKF-MS-G9-9W	G9	9 W	450 lm	2.700 K	65 mA	8000 h	>10000	32	90	A
TLKF-MS-G9-11W	G9	11 W	550 lm	2.700 K	80 mA	8000 h	>10000	32	105	A
TLKF-MS-GU10-7W	GU10	7 W	320 lm	2.700 K	50 mA	8000 h	>10000	32	80	A
TLKF-MS-GU10-9W	GU10	9 W	450 lm	2.700 K	65 mA	8000 h	>10000	32	90	A
TLKF-MS-GU10-11W	GU10	11 W	550 lm	2.700 K	80 mA	8000 h	>10000	32	105	A
TLKF-MSN-E14-11W	E14	11 W	550 lm	4.000 K	80 mA	8000 h	>10000	36	105	A
TLKF-MSN-E14-15W	E14	15 W	800 lm	4.000 K	105 mA	8000 h	>10000	36	112	A
TLKF-MSN-GU10-11W	GU10	11 W	550 lm	4.000 K	80 mA	8000 h	>10000	32	105	A

Compact fluorescent lamps, small spiral (KS)

230 V AC
50/60 Hz
Ra ≥80
T_{up} < 60s
Hg < 2,5 mg

Pictograms **E/0**

TRACON					In			D (mm)	L (mm)	
TLKF-E14-11-KS	E14	11 W	600 lm	2.700 K	80 mA	6000 h	>8000	42	127	A
TLKF-E14-13-KS	E14	13 W	720 lm	2.700 K	95 mA	6000 h	>8000	42	127	A
TLKF-E27-11-KS	E27	11 W	600 lm	2.700 K	80 mA	6000 h	>8000	42	127	A
TLKF-E27-13-KS	E27	13 W	720 lm	2.700 K	95 mA	6000 h	>8000	42	127	A
TLKF-E27-15-KS	E27	15 W	770 lm	2.700 K	105 mA	6000 h	>8000	42	135	A



Compact fluorescent lamps, globe (GL), pear (GLH)

Pictograms
E/0

TRACON					I_n			D (mm)	L (mm)	
TLKF-GL-E14-9W	E14	9 W	405 lm	2.700 K	65 mA	8000 h	>8000	60	99	A
TLKF-GL-E27-9W	E27	9 W	405 lm	2.700 K	65 mA	8000 h	>8000	60	96	A
TLKF-GL-E27-15W	E27	15 W	800 lm	2.700 K	105 mA	8000 h	>8000	80	132	A
TLKF-GL-E27-20W	E27	20 W	1155 lm	2.700 K	150 mA	8000 h	>8000	90	144	A
TLKF-GLH-E14-11W	E14	11 W	535 lm	2.700 K	80 mA	8000 h	>8000	50	112	A
TLKF-GLH-E27-11W	E27	11 W	535 lm	2.700 K	80 mA	8000 h	>8000	50	109	A

Compact fluorescent lamps with GR10q cap (2D)

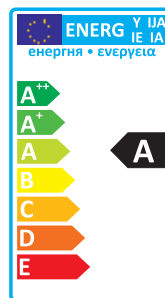
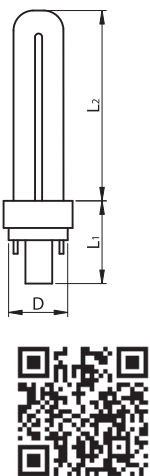
Pictograms
E/0

TRACON					I_n			M (mm)	D (mm)	L (mm)	
TLKF-2D-GR10Q-10W	GR10q	10 W	650 lm	3.500 K	65 lm/W	8000 h	>8000	20	14	14	A
TLKF-2D-GR10Q-16W	GR10q	16 W	1056 lm	3.500 K	66 lm/W	8000 h	>8000	20	14,8	14,8	A
TLKF-2D-GR10Q-21W	GR10q	21 W	1344 lm	3.500 K	64 lm/W	8000 h	>8000	20	14,8	14,8	A
TLKF-2D-GR10Q-28W	GR10q	28 W	2044 lm	3.500 K	73 lm/W	8000 h	>8000	20	21,2	21,2	A
TLKF-2D-GR10Q-38W	GR10q	38 W	2698 lm	3.500 K	71 lm/W	8000 h	>8000	20	21,2	21,2	A

Compact fluorescent lamps with G24d and G24q cap

Pictograms
E/0

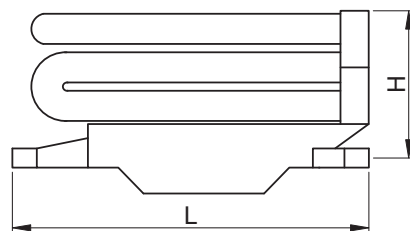
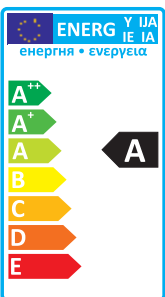
TRACON						D (mm)	L ₁ (mm)	L ₂ (mm)	
TLKF-13	G24d	13 W	780 lm	4.000 K	8000 h	33	43	99	A
TLKF-18	G24d	18 W	1.050 lm	4.000 K	8000 h	33	43	114	A
TLKF-26	G24d	26 W	1.550 lm	4.000 K	8000 h	33	43	130	A
TLKF-13-4P	G24q	13 W	780 lm	4.000 K	8000 h	33	36	99	A
TLKF-18-4P	G24q	18 W	1.050 lm	4.000 K	8000 h	33	36	114	A
TLKF-26-4P	G24q	26 W	1.550 lm	4.000 K	8000 h	33	36	130	A



Compact fluorescent lamps for R7s socket

Pictograms
E/0

TRACON								H (mm)	L (mm)	
TLKF-R7s-4U-11W	R7s	11 W	620 lm	6.500 K	80 mA	8000 h	>8000	30	78	A
TLKF-R7s-21W	R7s	21 W	1250 lm	6.500 K	175 mA	8000 h	>8000	52	118	A



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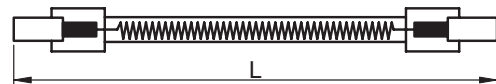
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Halogen line bulbs ("C" energy class)



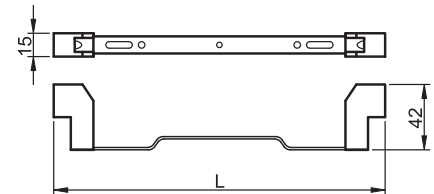
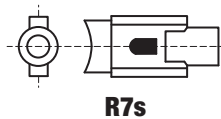
TRACON		In				Tc [K]		
THV1C-J100	100 W	0,43 A	1.800 lm	2.000 h	>2.000	2.900 K	78 mm	C
THV1C-J120	120 W	0,53 A	2.200 lm	2.000 h	>2.000	2.900 K	78 mm	C
THV2C-J200	200 W	0,87 A	4.000 lm	2.000 h	>2.000	2.900 K	118 mm	C
THV2C-J230	230 W	1 A	4.700 lm	2.000 h	>2.000	2.900 K	118 mm	C
THV2C-J330	330 W	1,43 A	7.000 lm	2.000 h	>2.000	2.900 K	118 mm	C
THV2C-J400	400 W	1,74 A	8.600 lm	2.000 h	>2.000	2.900 K	118 mm	C
THV3C-J750	750 W	3,26 A	16.900 lm	2.000 h	>2.000	2.900 K	189 mm	C



R7s sockets for halogen line bulbs

Pictograms **E/0**

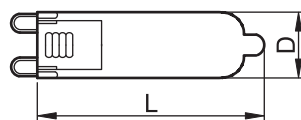
TRACON		L (mm)	H (mm)
THF-C	Porcelain base (2 pcs)	-	150 mm
THF-78	2 pcs base + rail	78 mm	150 mm
THF-118	2 pcs base + rail	118 mm	200 mm
THF-189	2 pcs base + rail	189 mm	200 mm



Small size halogen bulbs

Pictograms **E/0**

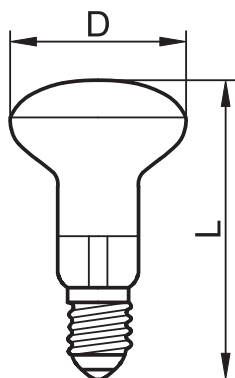
TRACON					Tc [K]	D (mm)	L (mm)	pcs	
TLWI-G9-60-F	60 W	G9	2.000 h	>2.000	2.700 K	14	40	3	F
TLWI-G9C-18	18 W	G9	2.000 h	>2.000	2.700 K	14	40	1	C
TLWI-G9C-28	28 W	G9	2.000 h	>2.000	2.700 K	14	40	1	C



Reflector lamps

Pictograms **E/0**

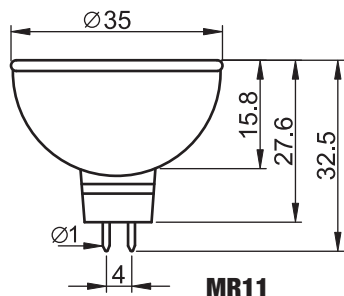
TRACON							D (mm)	L (mm)	
TLRL-R50-E14-25-F	TLRL-R50-E14-25	25 W	E14	1.000 h	>2.000	2.700 K	50	85	F
-	TLRL-R63-E27-40	40 W	E27	1.000 h	>2.000	2.700 K	63	100	F
-	TLRL-R63-E27-60	60 W	E27	1.000 h	>2.000	2.700 K	63	100	F



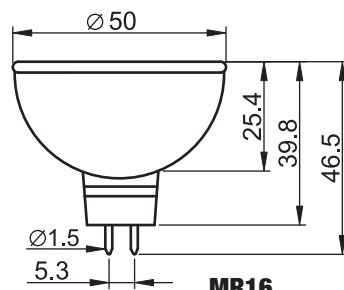
Low voltage halogen lamps with dichroic mirror

Pictograms **E/0**

TRACON								
MR11-20	MR11	20 W	G5.3	2.000 h	>2.000	2.700 K	40°	C
MR11-35	MR11	35 W	G5.3	2.000 h	>2.000	2.700 K	40°	C
MR16-20	MR16	20 W	G5.3	2.000 h	>2.000	2.700 K	30°	C
MR16-35	MR16	35 W	G5.3	2.000 h	>2.000	2.700 K	30°	C
MR16-50	MR16	50 W	G5.3	2.000 h	>2.000	2.700 K	30°	C



MR11



MR16



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Ceramic socket for low voltage lamps



G5.3

12 V AC/DC				Pictograms	E/0
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TRACON				
TG-5.5	G5.3	MR11, MR16	100 mm	

RELEVANT STANDARD EN 60061

RELEVANT STANDARD EN 60838

E27 Socket



RELEVANT STANDARD EN 60238

250 V AC			Pictograms	E/0
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TRACON				
FPE27	E27	2 x 2,5mm ²		

RELEVANT STANDARD EN 60061

RELEVANT STANDARD EN 60838

Ceramic socket for 230 V halogen lamps



GU-10

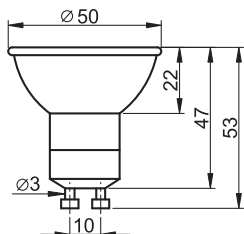
230 V AC			Pictograms	E/0
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TRACON				
TGU-10	GU10	100 mm		

RELEVANT STANDARD EN 60061

RELEVANT STANDARD EN 60838

Halogen lamps with dichroic mirror for 230 V



230 V AC			Hg 0 mg	
----------	--	--	------------	--

	Pictograms	E/0
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TRACON								
MR230-20	JDR+A	20 W	GU10	2.000 h	>2.000	2.700 K	45°	C
MR230-35	JDR+A	35 W	GU10	2.000 h	>2.000	2.700 K	45°	C
MR230-50	JDR+A	50 W	GU10	2.000 h	>2.000	2.700 K	45°	C

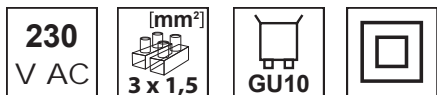


GU-10



RELEVANT STANDARD EN 61549

Network adaptor for MR230 lamps



TAGU-10 MR230 50 W

With help of this adaptor, recessed fittings for lamps with dichroic mirror can be supplied from 230 V power supply according to standards.

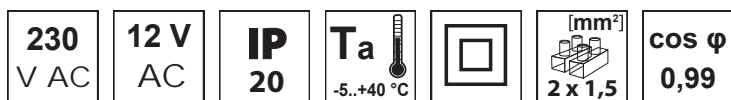
The supply wire conductors have to be connected to the screw terminals of the adaptor and the supply wire has to be fixed with the clamp.

The adaptor can be fixed to the housing with the spring element of the fitting.

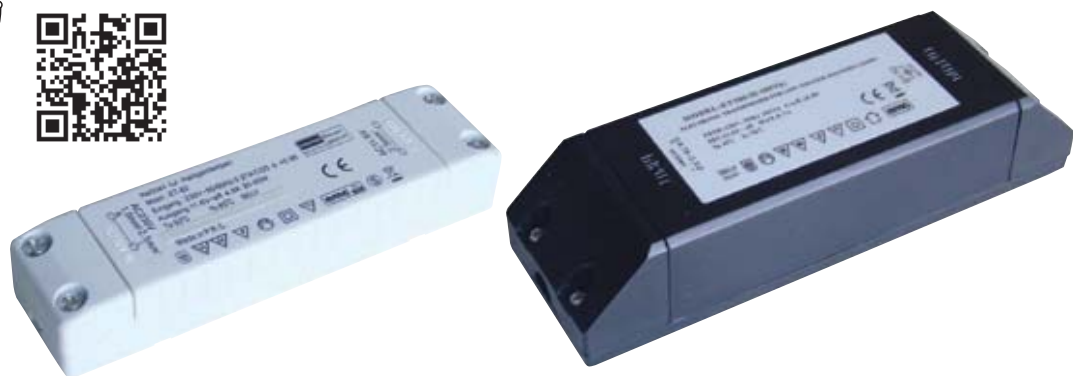
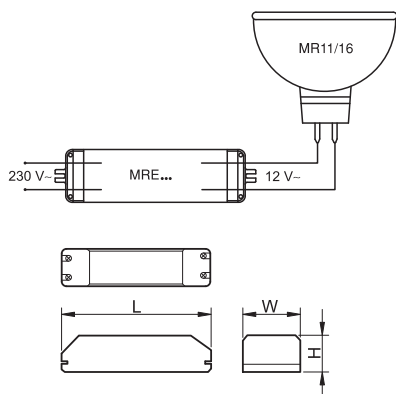


**RELEVANT STANDARD
EN 60061**

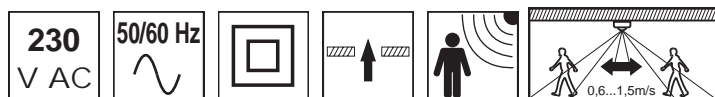
Electronic power supply unit



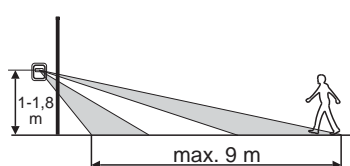
TRACON			L (mm)	W (mm)	H (mm)
MRE-50		20 W ... 60 W	131	33	21
MRE-105		35 W ... 105 W	156	48	36
MRE-150	MR11 / MR16	50 W ... 150 W	220	48	38
MRE-200		70 W ... 200 W	220	48	38
MRE-250		85 W ... 250 W	220	48	38



Recessed infrared movement sensors



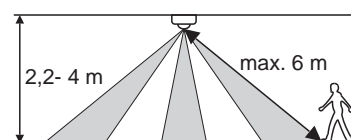
TRACON	[°]	lux	clock	IP..	L H W	into device box
TMB-060	160°	3-2.000 lux	10s...7 min.	IP 20	80 × 80 × 34	into device box
TMB-061	360°	3-2.000 lux	10s...7 min.	IP 20	∅ 76 × 75,6	into suspended ceiling



TMB-060



TMB-061

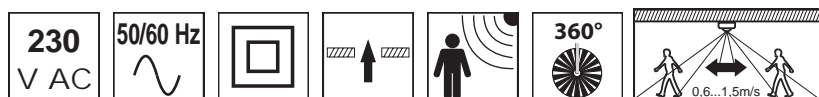


These recessed movement sensors are recommended for controlling indoor consumers, to ensure more aesthetic appearance. Time delay and switching threshold of environmental lighting are continuously adjustable. Attention! Adjustments can only be modified if the sensor is removed from its recess.

Rated switchable power

	TMB-060	TMB-061
Incandescent lamp	1.000 W	1.100 W
Halogen lamp	800 W	900 W
Fluorescent tube	300 W	300 W
LED	300 W	300 W

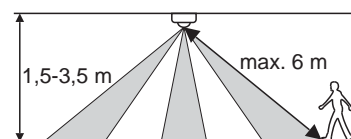
Radar-driven movement sensors



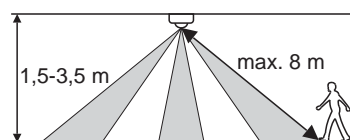
TRACON	[°]	lux	clock	IP..	L H W	into box, suspended ceiling, luminary
TMB-L01G	360°	3-2.000 lux	10s...12 min.	IP 20	76,2 × 42 × 43,8 mm	into box, suspended ceiling, luminary
TMB-L01D	360°	3-2.000 lux	10s...12 min.	IP 20	58 × 40,5 × 25,5 mm	into box, suspended ceiling, luminary



TMB-L01G



TMB-L01D

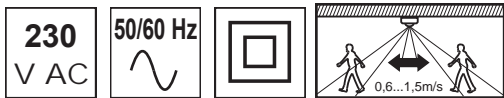


At a variance from infrared sensors, these sensors are able to detect movements through thin sheets of solid materials, i.e. can be installed in plastic boxes, false ceilings made of plaster slab or mineral wool, lamp bodies, etc. Attention must be paid to the fact that the radar waves cannot penetrate metal sheets. The hidden position of the sensors offers numerous advantages, both from aesthetic or security standpoint.

Rated switchable power

	TMB-L01G	TMB-L01D
Incandescent lamp	1.200 W	500 W
Halogen lamp	1.000 W	400 W
Fluorescent tube	300 W	200 W
LED	300 W	200 W

Movement sensors to be placed in E27 sockets



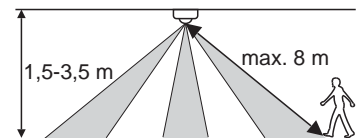
TRACON	[°]	lux	clock	IP..	H L W	edit
TMB-E50	120°	3-2.000 lux	10 s...5 min.	IP 20	∅ 64,5 × 127	E27
TMB-ME51	360°	3-2.000 lux	10 s...12 min.	IP 20	71 × 50 × 81,5	E27

Just screw-in the sensor into the socket and the light source into the socket of the sensor. Due to the radar sensor technology, **TMB-ME51** type sensors are able to detect movements through thin sheets of solid materials, i.e. lamp bulbs, whereas **TMB-E50** type sensors use infrared technology, i.e. can only be used in free position. Time delay and switching threshold of environmental lighting as well as sensitivity of the **TMB-ME51** type sensors are continuously adjustable.

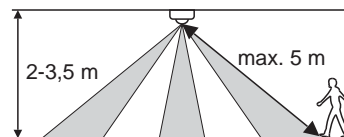
After installation into the E27 socket, **TMB-E50** type sensors can be rotated 350°, to place the window as desired.



TMB-ME51



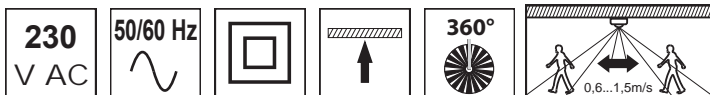
TMB-E50



Rated switchable power

	TMB-E50	TMB-ME51
Incandescent lamp	60 W	60 W
Halogen lamp	60 W	6 W
Fluorescent tube	30 W	30 W
LED	30 W	30 W

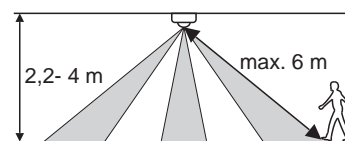
Movement sensors to be placed on ceilings



TRACON	[°]	lux	clock	IP..	H L W	edit
TMB-011	360°	3-2.000 lux	10s...7 min.	IP 20	∅ 88 × 42	on ceiling

These devices are primarily recommended for automatic ON/OFF switching of larger indoor rooms. Due to its 360° sensing angle, one sensor mounted onto the ceiling ensures detection in a circle of 6 m radius on the floor.

Time delay and switching threshold of environmental lighting are continuously adjustable.



TMB-011



Rated switchable power

	TMB-011
Incandescent lamp	1.000 W
Halogen lamp	800 W
Fluorescent tube	300 W
LED	300 W

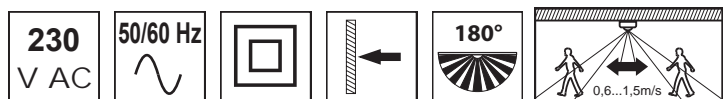






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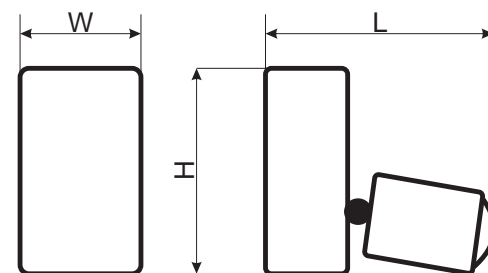
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Movement sensors to be placed on walls



TRACON	 [°]	 lux		IP..	L x W x H (mm)	
TMB-108	180°	3-2.000 lux	10s...7 min.	IP 44	82 x 104 x 72	on vertical surface
TMB-112	180°	3-2.000 lux	10s...7 min.	IP 44	91 x 84 x 63	on vertical surface
TMB-112F	180°	3-2.000 lux	10s...7 min.	IP 44	91 x 84 x 63	on vertical surface
TMB-115	180°	3-2.000 lux	10s...7 min.	IP 65	80 x 117 x 51	on vertical surface

Wall-mounted movement sensors are primarily meant for control of outdoor lighting systems. Detection angles of the wall-mounted sensors are adjustable at about 120°, both horizontally and vertically. An exception is the **TMB-115** type sensor, which ensures vertically more than 180°, horizontally 360° detection angle. Time delay and switching threshold of environmental lighting are continuously adjustable.



TMB-108



TMB-112



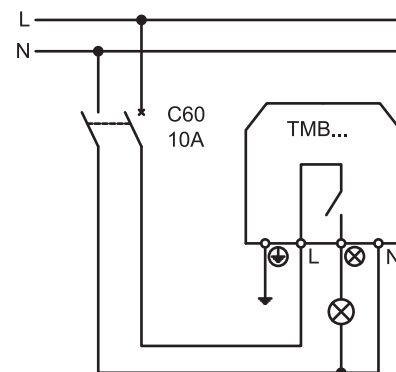
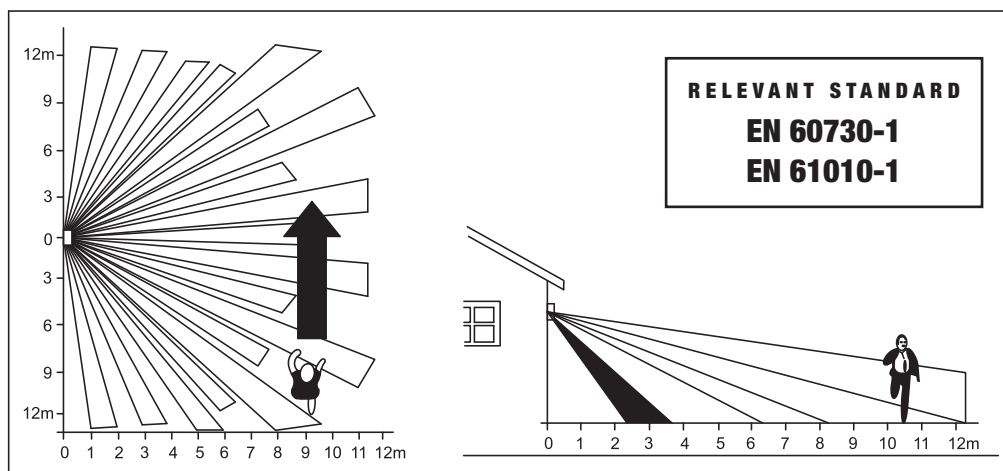
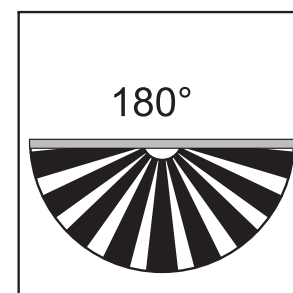
TMB-112F



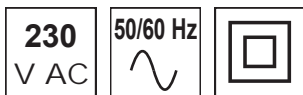
TMB-115

Rated switchable power

	TMB-108	TMB-112	TMB-112F	TMB-115
Incandescent lamp	1.000 W	1.000 W	1.000 W	1.000 W
Halogen lamp	800 W	800 W	800 W	800 W
Fluorescent tube	300 W	300 W	300 W	300 W
LED	300 W	300 W	300 W	300 W



Twilight Sensors



TRACON	I _n	lux	⌚	⌚ _{on} / ⌚ _{off}	IP..
ALK-IN	5 A	2-200 lux	1-8 h, OFF	1 min.	IP 44
ALK-OUT	10 A	5-50 lux	-	<15 sec	IP 44
ALK-BOX	16 A	2-100 lux	-	<15 sec	IP 20

This Family of twilight sensors is meant for lighting of various outdoor areas (gardens, parks, courts, etc.), shop windows or sales promotion texts, to be automatically switched ON/OFF in function of the intensity of the natural light. The twilight sensor switches on if the natural light intensity falls under the adjusted minimum value, respectively switches off, if the natural light intensity exceeds this threshold value. Besides, the **ALK-IN** type is provided with a time relay, which switches the device off after the adjusted delay time, independently from the natural light intensity. In the end position of the time relay the timing function is switched off.

Rated switchable power

	ALK-IN	ALK-OUT	ALK-BOX
Incandescent lamp	300 W	500 W	900 W
Halogen lamp	200 W	300 W	500 W
Fluorescent tube	100 W	120 W	200 W
LED	100 W	120 W	200 W



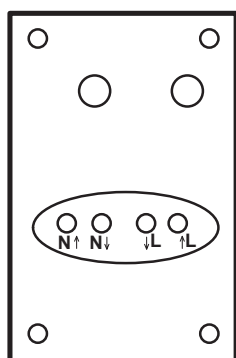
ALK-IN



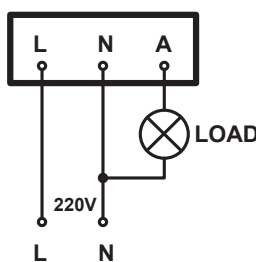
ALK-OUT



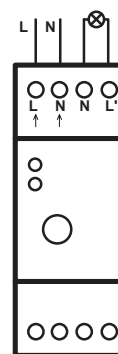
ALK-BOX



Installation:
cables hidden in the wall



Installation:
exterior cables



Installation:
device in the control cabinet, sensor outdoors



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