

### MASTER TL5 High Efficiency Eco - G5 base

- Up to 10 % energy saving with simply changing the lamp
- The same quality of light as compared with MASTER TL5 HE lamps
- All benefits of regular TL5 lamps

Part Number	Type	Watt	Colour	Package (pcs/pack)
<b>109283</b>	TL5-13/830ECOHE	13W/830	warm white	40
<b>109294</b>	TL5-13/840ECOHE	13W/840	cool white	40
<b>109305</b>	TL5-25/830ECOHE	25W/830	warm white	40
<b>109316</b>	TL5-25/840ECOHE	25W/840	cool white	40
<b>109327</b>	TL5-32/830ECOHE	32W/830	warm white	40
<b>109338</b>	TL5-32/840ECOHE	32W/840	cool white	40



### MASTER TL5 High Output Eco - G5 base

- Up to 10 % energy saving with simply changing the lamp
- The same quality of light as compared with MASTER TL5 HO lamps
- All benefits of regular TL5 lamps

Part Number	Type	Watt	Colour	Package (pcs/pack)
<b>109349</b>	TL5-20/830ECOHO	20W/830	warm white	40
<b>109360</b>	TL5-20/840ECOHO	20W/840	cool white	40
<b>109371</b>	TL5-45/830ECOHO	45W/830	warm white	40
<b>109382</b>	TL5-45/840ECOHO	45W/840	cool white	40
<b>109393</b>	TL5-50/830ECOHO	50W/830	warm white	40
<b>109404</b>	TL5-50/840ECOHO	50W/840	cool white	40
<b>109415</b>	TL5-73/830ECOHO	73W/830	warm white	40
<b>109426</b>	TL5-73/840ECOHO	73W/840	cool white	40



## MASTER TL5 High Efficiency - G5 base

- 40% thinner than TL-D lamps
- High lamp efficacies up to 104 lm/W
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well suited for dimming
- Maximum light output reached at approx. 35 °C in free-burning position if an electronic ballast without additional electrode heating is used
- Can be ignited from -15 to +50 °C

### Applications:

- Ideally suited for recessed, surface-mounted and suspended luminaires in applications like offices, shops, schools, public buildings and industry, wherever high-quality, energy-effective lighting is required

Part Number	Type	Watt	Colour	Package (pcs/pack)
109437	TL5-14W/827HE	14W	827-incandescent white	40
109448	TL5-14W/830HE	14W	830-warm white	40
109459	TL5-14W/840HE	14W	840-cool white	40
109470	TL5-14W/865HE	14W	865-cool daylight	40
109481	TL5-21W/827HE	21W	827-incandescent white	40
109492	TL5-21W/830HE	21W	830-warm white	40
109503	TL5-21W/840HE	21W	840-cool white	40
109514	TL5-21W/865HE	21W	865-cool daylight	40
109525	TL5-28W/827HE	28W	827-incandescent white	40
109536	TL5-28W/830HE	28W	830-warm white	40
109547	TL5-28W/840HE	28W	840-cool white	40
109558	TL5-28W/865HE	28W	865-cool daylight	40
109569	TL5-35W/827HE	35W	827-incandescent white	40
109580	TL5-35W/830HE	35W	830-warm white	40
109591	TL5-35W/840HE	35W	840-cool white	40
109602	TL5-35W/865HE	35W	865-cool daylight	40



## MASTER TL5 HE Secura - G5 base

- Protective coating around the lamp (may extend by maximally 0.5 mm at lamp ends)
- Single blue ring around one end for identification
- Direct retrofit for all TL5 HE lamps

### Applications:

- For use where contamination resulting from lamp breakage must be prevented, e.g. in food industry, suppliers to the food industry, health care, pharmaceuticals, cleanrooms etc.
- Suitable for use in environments with increased risk of breakage, e.g. sports halls

Part Number	Type	Watt	Colour	Package (pcs/pack)
109613	TL5-14W/83HESEC	14W	830-warm white	40
109624	TL5-14W/84HESEC	14W	840-cool white	40
109635	TL5-21W/83HESEC	21W	830-warm white	40
109646	TL5-21W/84HESEC	21W	840-cool white	40
109657	TL5-28W/83HESEC	28W	830-warm white	40
109668	TL5-28W/84HESEC	28W	840-cool white	40
109679	TL5-35W/83HESEC	35W	830-warm white	40
109690	TL5-35W/84HESEC	35W	840-cool white	40



## MASTER TL5 High Output - G5 base

- 40% thinner than TL-D lamps
- Designed for high light output and system miniaturisation
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well suited for dimming
- Maximum light output reached at approx. 35 °C in free-burning position if an electronic ballast without additional electrode heating is used
- Can be ignited from -15 to +50 °C

### Applications:

- The combination of a compact lamp and high lumen package of the MASTER TL5 HO offers exciting opportunities for architectural lighting and customised solutions
- Offers economic solutions with high-ceiling lighting in shops, industry and department stores
- The high luminous flux gives optimal results in aesthetic pendants and furniture-mounted luminaires in offices, workshops, restaurants and reception areas

Part Number	Type	Watt	Colour	Package (pcs/pack)
109701	TL5-24W/827HO	24W	827-incandescent white	40
109712	TL5-24W/830HO	24W	830-warm white	40
109723	TL5-24W/840HO	24W	840-cool white	40
109734	TL5-24W/865HO	24W	865-cool daylight	40
109745	TL5-39W/827HO	39W	827-incandescent white	40
109756	TL5-39W/830HO	39W	830-warm white	40
109767	TL5-39W/840HO	39W	840-cool white	40
109778	TL5-39W/865HO	39W	865-cool daylight	40
109789	TL5-49W/865HO	49W	827-incandescent white	40
109800	TL5-49W/827HO	49W	830-warm white	40
109811	TL5-49W/830HO	49W	840-cool white	40
109822	TL5-49W/840HO	49W	865-cool daylight	40
109833	TL5-54W/827HO	54W	827-incandescent white	40
109844	TL5-54W/830HO	54W	830-warm white	40
109855	TL5-54W/840HO	54W	840-cool white	40
109866	TL5-54W/865HO	54W	865-cool daylight	40
109877	TL5-80W/827HO	80W	827-incandescent white	40
109888	TL5-80W/830HO	80W	830-warm white	40
109899	TL5-80W/840HO	80W	840-cool white	40
109910	TL5-80W/865HO	80W	865-cool daylight	40



## MASTER TL5 High Output Secura - G5 base

- All the advantages of TL5 HO lamps
- Protective coating around the lamp (may extend by maximally 0.5 mm at lamp ends)
- Single blue ring around one end for identification
- Direct retrofit for all TL5 HO lamps

### Applications:

- For use where contamination resulting from lamp breakage must be prevented, e.g. in food industry, suppliers to the food industry, health care, pharmaceuticals, cleanrooms etc.
- Suitable for use in environments with increased risk of breakage, e.g. sports halls

Part Number	Type	Watt	Colour	Package (pcs/pack)
109921	TL5-24W/84HOSEC	24W	840-cool white	40
109932	TL5-24W/83HOSEC	24W	830-warm white	40
109943	TL5-39W/84HOSEC	39W	840-cool white	40
109954	TL5-39W/83HOSEC	39W	830-warm white	40
109965	TL5-49W/83HOSEC	49W	830-warm white	40
109976	TL5-49W/84HOSEC	49W	840-cool white	40
109987	TL5-54W/84HOSEC	54W	840-cool white	40
109998	TL5-54W/83HOSEC	54W	830-warm white	40
110009	TL5-80W/83HOSEC	80W	830-warm white	40
110020	TL5-80W/84HOSEC	80W	840-cool white	40



## MASTER TL5 High Output Xtra - G5 base

- Significant reduction of early failures through advanced long life technology
- Extra long lifetime and high reliability
- Designed for high lumen output and system miniaturization (40% thinner than TL-D lamps)
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear
- Maximum lumen output reached at approx. 35 °C in free-burning position
- Can be ignited from -15 ° to +50 °C
- Low mercury dose
- End-cap has an x-shaped green bottom plate to distinguish the lamp from other fluorescent lamps

### Applications:

- Where maintenance costs are high, e.g. high ceilings or other hard-to-reach locations
- Department stores, supermarkets, warehouses, production halls and public areas like car parks and railway stations

Part Number	Type	Watt	Colour	Package (pcs/pack)
110031	TL5-49W/830HOX	49W	830-warm white	20
110042	TL5-49W/840HOX	49W	840-cool white	20
110053	TL5-54W/830HOX	54W	830-warm white	20
110064	TL5-54W/840HOX	54W	840-cool white	20
110075	TL5-80W/830HOX	80W	830-warm white	20
110086	TL5-80W/840HOX	80W	840-cool white	20



## MASTER TL5 High Output 90 De Luxe - G5 base

- 40% thinner than existing TL-D lamps
- Highly efficient multi-band fluorescent coating in combination with precoating and high lamp load
- Specifically designed for operation with electronic gear and well suited for dimming
- Maximum light output reached at approx. 35 °C in free-burning position if an electronic ballast without additional electrode heating is used
- Can be ignited from -15 to +50 °C

### Applications:

- Where a high colour recognition is needed: first aid and treatment rooms in hospitals, printing rooms, jewellery manufacturing, dentists, hairdressing, museums and shops

Part Number	Type	Watt	Colour	Package (pcs/pack)
110097	TL5-24/950HO	24W	950-daylight	15
110108	TL5-24W/940HO	24W	940-cool white	15
110119	TL5-24W/965HO	24W	965-cool daylight	15
110130	TL5-49/950HO	49W	950-daylight	15
110141	TL5-49W/940HO	49W	940-cool white	15
110152	TL5-49W/965HO	49W	965-cool daylight	15
110163	TL5-54/950HO	54W	950-daylight	15
110174	TL5-54W/940HO	54W	940-cool white	15
110185	TL5-54W/965HO	54W	965-cool daylight	15



## MASTER TL5 ActiViva - G5 base

- Enhanced blue light content positively influences well-being
- Unique phosphor coating generates a light spectrum with an optimal balance between light for vision and blue light to promote well-being.
- Direct retrofit for existing fluorescent lamps operating on conventional or HF gear
- High-quality lighting (CRI>80) with efficiency comparable to other /800 colors
- Dimmable

### Applications:

- Indoor working areas (call centers, industry, schools, healthcare etc.), especially where an energizing environment needs to be created
- ActiViva Active is recommended for use in indirect lighting when total areas are equipped
- ActiViva Natural can be combined well with other light sources in existing installations

Part Number	Type	Watt	Colour	Package (pcs/pack)
110196	TL5-14W/ACT/ ACT(HE)	14W	452-ActiViva Active	40
110207	TL5-14W/ACT/ NAT(HE)	14W	451-ActiViva Natural	40
110218	TL5-21W/ACT/ NAT(HE)	21W	451-ActiViva Natural	40
110229	TL5-21W/ACT/ ACT(HE)	21W	452-ActiViva Active	40
110240	TL5-24W/ACT/ NAT(HO)	24W	451-ActiViva Natural	40
110251	TL5-24W/ACT/ ACT(HO)	24W	452-ActiViva Active	40
110262	TL5-28W/ACT/ NAT(HE)	28W	451-ActiViva Natural	40
110273	TL5-28W/ACT/ ACT(HE)	28W	452-ActiViva Active	40
110284	TL5-35W/ACT/ NAT(HE)	35W	451-ActiViva Natural	40
110295	TL5-35W/ACT/ ACT(HE)	35W	452-ActiViva Active	40
110306	TL5-49W/ACT/ ACT(HO)	49W	452-ActiViva Active	40
110317	TL5-54W/ACT/ ACT(HO)	54W	452-ActiViva Active	40
110328	TL5-54W/ACT/ NAT(HE)	54W	451-ActiViva Natural	40



## MASTER TL5 Coloured - G5 base

- Highly efficient one-band fluorescent coating in combination with pre-coating and high lamp load
- 40% thinner than existing TL-D lamps
- Low mercury dose
- Specifically designed for operation with electronic gear and well suited for dimming
- Maximum light output reached at approx. 35 °C in free-burning position if an electronic ballast without additional electrode heating is used
- Can be ignited from -15 to +50 °C

### Applications:

- Creation of special colour effects and/or ambiance, e.g. in theaters, shops, disco's, theme parks, shop windows, displays and signs
- Creation of different ambiances with white light by changing the colour temperature, e.g. in shops, treatment rooms, theatres, high-end offices, conference rooms

Part Number	Type	Watt	Colour	Package (pcs/package)
110339	TL5-14W/15HERED(HE)	14W	150-red	15
110350	TL5-14W/17HEGRN(HE)	14W	170-green	15
110361	TL5-14W/18HEBLU(HE)	14W	180-blue	15
110372	TL5-24W/15HORED(HO)	24W	150-red	15
110383	TL5-24W/17HOGRN(HO)	24W	170-green	15
110394	TL5-24W/18HOBLU(HO)	24W	180-blue	15
110405	TL5-28W/15HERED(HE)	28W	150-red	15
110416	TL5-28W/17HEGRN(HE)	28W	170-green	15
110427	TL5-28W/18HEBLU(HE)	28W	180-blue	15
110438	TL5-54W/15HORED(HO)	54W	150-red	15
110449	TL5-54W/17HOGRN(HO)	54W	170-green	15
110460	TL5-54W/18HOBLU(HO)	54W	180-blue	15



## MASTER TL5 Circular - 2GX13 base

- Highly efficient 3-band fluorescent coating
- Specifically designed for operation with electronic gear
- Can be ignited from -15 to +50 °C
- Amalgam technology

### Applications:

- Brings the benefits of TL5 lighting to an even wider range of attractive applications
- Suitable for a wide range of professional and semi-professional applications
- Ideal for use in shops, offices and public areas with non-traditional lay-outs
- Amalgam lamps are limited suitable for dimming applications

Part Number	Type	Watt	Colour	Package (pcs/package)
110471	TL5-22W/827C	22W	827-incandescent white	10
110482	TL5-22W/830C	22W	830-warm white	10
110493	TL5-22W/840C	22W	840-cool white	10
110504	TL5-40W/827C	40W	827-incandescent white	10
110515	TL5-40W/830C	40W	830-warm white	10
110526	TL5-40W/840C	40W	840-cool white	10
110537	TL5-55W/830C	55W	830-warm white	10
110548	TL5-55W/840C	55W	840-cool white	10
110559	TL5-60W/830C	60W	830-warm white	10
110570	TL5-60W/840C	60W	840-cool white	10



## MASTER TL-D Eco - G13 base

- The only T8 fluorescent lamp that saves more than 10% of energy in existing indoor luminaires
- Can be directly retrofitted into existing fluorescent fittings operating on conventional EM or HF gear in indoor applications
- Uses the latest highly efficient phosphors and special filling gas
- High-quality lighting with good color rendering (CRI>80)
- Light output comparable to other TL-D Super 80 colors
- Lumen maintenance and lifetime the same as other TL-D Super 80 colors
- Dimmable

### Application:

- For use in indoor applications with room temperatures above 20 °C (which implies temperature around the lamp of over 25-35 °C)
- Primary focus on offices, schools and hospitals; secondary focus on retail, industry, supermarkets

Part Number	Type	Watt	Colour	Package (pcs/pack)
110581	TLD16W/865ECO	16W	865-cool daylight	25
110592	TLD16W/830ECO	16W	830-warm white	25
110603	TLD16W/840ECO	16W	840-cool white	25
110614	TLD32W/830ECO	32W	830-warm white	25
110625	TLD32W/840ECO	32W	840-cool white	25
110636	TLD32W/865ECO	32W	865-cool daylight	25
110647	TLD51W/830ECO	51W	830-warm white	25
110658	TLD51W/840ECO	51W	840-cool white	25
110669	TLD51W/865ECO	51W	865-cool daylight	25



## MASTFR TI -D Reflex Eco - G13 base

- Internal reflector directs the light via a 160° 'window'
- Reflector directs 85% of the light downwards avoiding wasted light
- Direct retrofit for existing fluorescent fittings operating on conventional or HF gear
- High-quality lighting with good color rendering (CRI>80)
- Light output comparable to other TL-D Super 80 colors
- Lumen maintenance and lifetime the same as other TL-D Super 80 colors
- Dimmable

### Application:

- Luminaires without reflectors or with only simple reflectors, mainly found in industry and shops /supermarkets

Part Number	Type	Watt	Colour	Package (pcs/pack)
110680	TLD18W/83RFL	18W	830-warm white	25
110691	TLD18W/84RFL	18W	840-cool white	25
110702	TLD36W/83RFL	36W	830-warm white	25
110713	TLD36W/84RFL	36W	840-cool white	25
110724	TLD58W/83RFL	58W	830-warm white	25
110735	TLD58W/84RFL	58W	840-cool white	25



## MASTER TL-D Xtreme - G13 base

- Significant reduction of early failures based upon a new technology (patent pending)
- Extreme long and reliable lifetime
- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- Low mercury dose for a long-life lamp (5 mg)
- Fully recyclable lamp technology
- End-cap has an x-shaped green bottom plate to distinguish lamp from other fluorescent lamps

### Application:

- Suitable for use in applications where maintenance costs (high ceilings, difficult to reach) and disruptive costs are high (stopping of production process, closure of tunnels), or where lamp failure is not acceptable for e.g. safety reasons: tunnels, process, food and petrochemical industries

Part Number	Type	Watt	Colour	Package (pcs/pack)
110746	TLD18W/83XX	18W	830-warm white	25
110757	TLD18W/84XX	18W	840-cool white	25
110768	TLD18W/86XX	18W	865-cool daylight	25
110779	TLD36W/83XX	36W	830-warm white	25
110790	TLD36W/84XX	36W	840-cool white	25
110801	TLD36W/86XX	36W	865-cool daylight	25
110812	TLD58W/83XX	58W	830-warm white	25
110823	TLD58W/84XX	58W	840-cool white	25



## MASTER TL-D Xtreme Polar - G13 base

- Improved lumen output in low ambient temperatures
- The same reliable, long lifetime performance as regular MASTER TL-D Xtra and Xtreme
- Robust lamp construction due to strong, temperature-resistant assembly kit
- 10 pcs. packaging

### Application:

- Indoor: cold stores and other refrigerated areas
- Outdoor: petrol stations, car parks, shipping docks, petrochemical plants, sign lighting, tunnels

Part Number	Type	Watt	Colour	Package (pcs/pack)
110834	TLD18W/84XTRM-P	18W	840-cool white	10
110845	TLD36W/84XTRM-P	36W	840-cool white	10
110856	TLD58W/84XTRM-P	58W	840-cool white	10





**MASTER TL-D Xtreme Secura - G13 base**

- Significant reduction of early failures based on new X-technology
- Extremely long life and high reliability
- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- Low mercury dose for a long-life lamp (5 mg)
- Fully recyclable lamp technology
- End-cap has an x-shaped green bottom plate to distinguish the lamp from other fluorescent lamps
- Strong, temperature-resistant protective Secura coating based on FEP (Teflon)
- Coating lifetime is identical to the lifetime of the lamp

**Application:**

- Food & beverages and pharmaceuticals industry: factories, distribution centres, retail outlets; locations where maintenance and/or process disruption costs are high (high ceilings, difficult access)

Part Number	Type	Watt	Colour	Package (pcs/pack)
<b>110867</b>	TLD18SEC/83XX	18W	830-warm white	25
<b>110878</b>	TLD18SEC/84XX	18W	840-cool white	25
<b>110889</b>	TLD36SEC/83XX	36W	830-warm white	25
<b>110900</b>	TLD36SEC/84XX	36W	840-cool white	25
<b>110911</b>	TLD58SEC/83XX	58W	830-warm white	25
<b>110922</b>	TLD58SEC/84XX	58W	840-cool white	25


**MASTER TL-D Xtra - G13 base**

- Significant reduction of early failures based upon a new technology (patent pending)
- Extra long and reliable lifetime
- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- Low mercury dose for a long-life lamp
- Fully recyclable lamp technology
- End-cap has an x-shaped green bottom plate to distinguish the lamp from other fluorescent lamps

**Application:**

- Suitable for use in applications where maintenance costs are high (high ceilings, difficult to reach): department stores, supermarkets, warehouses, production halls, offices and public areas like car parks and railway stations

Part Number	Type	Watt	Colour	Package (pcs/pack)
<b>110933</b>	TLD18W/83X	18W	830-warm white	25
<b>110944</b>	TLD18W/84X	18W	840-cool white	25
<b>110955</b>	TLD18W/86X	18W	865-cool daylight	25
<b>110966</b>	TLD36W/83X	36W	830-warm white	25
<b>110977</b>	TLD36W/84X	36W	840-cool white	25
<b>110988</b>	TLD36W/86X	36W	865-cool daylight	25
<b>110999</b>	TLD58W/83X	58W	830-warm white	25
<b>111010</b>	TLD58W/84X	58W	840-cool white	25
<b>111021</b>	TLD58W/86X	58W	865-cool daylight	25



## MASTER TL-D Xtra Polar - G13 base

- Improved light output in low ambient temperatures
- The same reliable, long lifetime performance as regular MASTER TL-D Xtra
- Robust lamp construction due to strong, temperature-resistant assembly kit
- 10 pcs. packaging

**Application:**

- All applications at lower ambient temperatures (below 10 °C)
- Indoor: cold stores and other refrigerated areas
- Outdoor: petrol stations, car parks, shipping docks, petrochemical plants, sign lighting, tunnels

Part Number	Type	Watt	Colour	Package (pcs/pack)
<b>111032</b>	TLD18W/84XTRA-P	18W	840-cool white	10
<b>111043</b>	TLD36W/84XTRA-P	36W	840-cool white	10
<b>111054</b>	TLD58W/84XTRA-P	58W	840-cool white	10



## MASTER TL-D Xtra Secura - G13 base

- Significant reduction of early failures based on new X-technology
- Extra-long life and high reliability
- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- Low mercury dose for a long-life lamp (5 mg)
- Fully recyclable lamp technology
- End-cap has an x-shaped green bottom plate to distinguish the lamp from other fluorescent lamps
- Strong, temperature-resistant protective Secura coating based on FEP (Teflon)
- Coating lifetime is identical to the lifetime of the lamp

**Application:**

- Food & beverages and pharmaceuticals industry: factories, distribution centres, retail outlets; locations where maintenance costs are high (high ceilings, difficult access)

Part Number	Type	Watt	Colour	Package (pcs/pack)
<b>111065</b>	TLD18SEC/83X	18W	830-warm white	25
<b>111076</b>	TLD18SEC/84X	18W	840-cool white	25
<b>111087</b>	TLD36SEC/83X	36W	830-warm white	25
<b>111098</b>	TLD36SEC/84X	36W	840-cool white	25
<b>111109</b>	TLD58SEC/83X	58W	830-warm white	25
<b>111120</b>	TLD58SEC/84X	58W	840-cool white	25



## MASTER TL-D Super 80 - G13 base

- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- High initial lumen output
- Available in varying colour designations
- Low mercury dose
- MASTER TL-D lamps are fully recyclable
- End-cap has green bottom plate to identify lamp as recyclable

### Application:

- Suitable for use in a wide range of luminaires for TL-D fluorescent lamps for 'human' applications such as schools, offices, shops, factory halls etc.

Part Number	Type	Watt	Colour	Package (pcs/package)
111131	TLD15W/82	15W	827-incandescent white	10
111142	TLD15W/83	15W	830-warm white	25
111153	TLD15W/84	15W	840-cool white	25
111164	TLD18W/82	18W	827-incandescent white	25
111175	TLD18W/83	18W	830-warm white	25
111186	TLD18W/84	18W	840-cool white	25
111197	TLD18W/86	18W	865-cool daylight	25
111208	TLD23W/83	23W	830-warm white	25
111219	TLD23W/84	23W	840-cool white	25
111230	TLD30W/82	30W	827-incandescent white	25
111241	TLD30W/83	30W	830-warm white	25
111252	TLD30W/84	30W	840-cool white	25
111263	TLD30W/86	30W	865-cool daylight	25
111274	TLD36W/82	36W	827-incandescent white	25
111285	TLD36W/83	36W	830-warm white	25
111296	TLD36W/84	36W	840-cool white	25
111307	TLD36W/86	36W	865-cool daylight	25
111318	TLD36W1/83	36W	830-warm white	25
111329	TLD36W1/84	36W	840-cool white	25
111340	TLD38W/84	38W	840-cool white	25
111351	TLD58W/82	58W	827-incandescent white	25
111362	TLD58W/83	58W	830-warm white	25
111373	TLD58W/84	58W	840-cool white	25
111384	TLD58W/86	58W	865-cool daylight	25



## MASTER TL-D Secura - G13 base

- Protective coating around the entire lamp
- Blue ring around one end
- Direct retrofit for all Standard and Super /80 TL-D lamps operating on conventional or HF gear
- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- Available in various colour designations
- Low mercury dose
- Recyclable at end-of-life, including the protective lamp coating
- End-cap has green bottom plate to identify lamp as recyclable

### Application:

- For use where contamination resulting from lamp breakage must be prevented, e.g. in food preparation, health care, pharmaceuticals, cleanrooms etc.
- Suitable for use in environments with increased risk of breakage, e.g. sports halls
- Suitable for use in environments where UV emission should be reduced (museums, libraries, archives, food industry, fashion shops, etc.)

Part Number	Type	Watt	Colour	Package (pcs/pack)
<b>111395</b>	TLD18W/83SEC	18W	830-warm white	25
<b>111406</b>	TLD18W/84SEC	18W	840-cool white	25
<b>111417</b>	TLD36W/83SEC	36W	830-warm white	25
<b>111428</b>	TLD36W/84SEC	36W	840-cool white	25
<b>111439</b>	TLD58W/83SEC	58W	830-warm white	25
<b>111450</b>	TLD58W/84SEC	58W	840-cool white	25



## MASTER TL-D HF Super 80 - G13 base

- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- High initial lumen output
- Available in varying colour designations
- Low mercury dose
- MASTER TL-D lamps are fully recyclable
- End-cap has green bottom plate to identify lamp as recyclable

### Application:

- Suitable for use in a wide range of luminaires for TL-D fluorescent lamps for 'human' applications such as schools, offices, shops, factory halls etc.

Part Number	Type	Watt	Colour	Package (pcs/pack)
<b>111461</b>	TLD16W/83HF	16W	830-warm white	25
<b>111472</b>	TLD16W/84HF	16W	840-cool white	25
<b>111483</b>	TLD32W/83HF	32W	830-warm white	25
<b>111494</b>	TLD32W/84HF	32W	840-cool white	25
<b>111505</b>	TLD50W/83HF	50W	830-warm white	25
<b>111516</b>	TLD50W/84HF	50W	840-cool white	25



## MASTER TL-D ActiViva - G13 base

- Enhanced blue light content positively influences well-being
- Unique phosphor coating generates a light spectrum with an optimal balance between light for vision and blue light to promote well-being.
- Direct retrofit for existing fluorescent lamps operating on conventional or HF gear
- High-quality lighting (CRI>80) with efficiency comparable to other /800 colors
- Dimmable

### Application:

- Indoor working areas (call centers, industry, schools, healthcare etc.), especially where an energizing environment needs to be created
- Can be combined well with other light sources in existing installations
- ActiViva Active is recommended for use in indirect lighting when total areas are equipped
- ActiViva can be used to enhance the circadian rhythm of people who work in night shifts

Part Number	Type	Watt	Colour	Package (pcs/package)
<b>111527</b>	TLD18W/ACT/NAT	18W	451-ActiViva Natural	25
<b>111538</b>	TLD18W/ACT/ACT	18W	452-ActiViva Active	25
<b>111549</b>	TLD36W/ACT/NAT	36W	451-ActiViva Natural	25
<b>111560</b>	TLD36W/ACT/ACT	36W	452-ActiViva Active	25
<b>111571</b>	TLD58W/ACT/NAT	58W	451-ActiViva Natural	25
<b>111582</b>	TLD58W/ACT/ACT	58W	452-ActiViva Active	25



## MASTER TL-D 90 De Luxe - G13 base

- High-quality fluorescent coating
- Available in various colour designations

### Application:

- Used in applications where good colour rendering is crucial, such as shops (flower, fashion, department, etc.), hairdresser, museums, hospitals, etc

Part Number	Type	Watt	Colour	Package (pcs/package)
<b>111593</b>	TLD18W/95	18W	950-daylight	10
<b>111604</b>	TLD18W/96	18W	965-cool daylight	10
<b>111615</b>	TLD18W/93	18W	930-warm white	10
<b>111626</b>	TLD18W/94	18W	940-cool white	10
<b>111637</b>	TLD30W/93	30W	950-daylight	10
<b>111648</b>	TLD36W/96	36W	965-cool daylight	10
<b>111659</b>	TLD36W/95	36W	950-daylight	10
<b>111670</b>	TLD36W/93	36W	930-warm white	10
<b>111681</b>	TLD36W/94	36W	940-cool white	10
<b>111692</b>	TLD58W/96	58W	965-cool daylight	10
<b>111703</b>	TLD58W/95	58W	950-daylight	10
<b>111714</b>	TLD58W/93	58W	930-warm white	10
<b>111725</b>	TLD58W/94	58W	940-cool white	10



## MASTER TL-D 90 Graphica - G13 base

- High-quality fluorescent coating
- Available in two colour designations

**Application:**

- Used in applications where excellent colour rendering is crucial, such as the graphical industry, printing industry, photo shops, hospitals etc.

Part Number	Type	Watt	Colour	Package (pcs/pack)
<b>111736</b>	TLD18W/95GRAPH	18W	950-daylight	10
<b>111747</b>	TLD18W/96GRAPH	18W	965-cool daylight	10
<b>111758</b>	TLD36W/95GRAPH	36W	950-daylight	10
<b>111769</b>	TLD36W/96GRAPH	36W	965-cool daylight	10
<b>111780</b>	TLD58W/95GRAPH	58W	950-daylight	10
<b>111791</b>	TLD58W/96GRAPH	58W	965-cool daylight	10



## MASTER TL-D Optiview - G13 base

- High-quality fluorescent coating tuned to simplify colour discrimination, supporting quick and optimal diagnosis
- Designed to comply with the critical diagnosis parameter Cyanosis Observation Index (COI), with COI <math>\leq 3</math> (normal fluorescent lamps: COI >math>\geq 6</math>)
- Cool white colour
- Direct retrofit for existing fluorescent fittings operating on conventional or electronic gear

**Application:**

- General lighting purposes in all areas of hospitals and (paramedical) clinics where there is interaction between patients and medical staff

Part Number	Type	Watt	Colour	Package (pcs/pack)
<b>111802</b>	TLD18W/95OPTI	18W	950-daylight	10
<b>111813</b>	TLD36W/95OPTI	36W	950-daylight	10
<b>111824</b>	TLD58W/95OPTI	58W	950-daylight	10



## TL-D Coloured - G13 base

- The fluorescent powders of /15 (red) and /16 (yellow) lamps are mixed with a pigment to filter out unwanted wavelengths

**Application:**

- For colour effects in stage lighting, shop-window lighting, festive lighting, bars, dance halls etc.
- Not suitable for use in potentially explosive environments


Part Number	Type	Watt	Colour	Package (pcs/pack)	
111835	TLD18W/18	18	Blue	25	
111846	TLD18W/17	18	Green	25	
111857	TLD18W/15	18	Red	25	
111868	TLD18W/16	18	Yellow	25	
111879	TLD36W/18	36	Blue	25	
111890	TLD36W/17	36	Green	25	
111901	TLD36W/15	36	Red	25	
111912	TLD36W/16	36	Yellow	25	
111923	TLD58W/18	58	Blue	25	
111934	TLD58W/17	58	Green	25	
111945	TLD58W/16	58	Red	25	
111956	TLD58W/15	58	Yellow	25	

## TL-D 33 & 54 colour - G13 base

- Standard colours with moderate colour rendering
- Available in various colour designations

**Application:**

- Suitable for use in a wide range of luminaires for TL-D fluorescent lamps, used in applications where colour rendering is not an important factor

Part Number	Type	Watt	Colour	Package (pcs/pack)	
111967	TLD14W/33	14W	33-cool white	25	
111978	TLD14W/54	14W	54-cool daylight	25	
111989	TLD15W/33	15W	33-cool white	25	
112000	TLD15W/54	15W	54-cool daylight	25	
112011	TLD18W/33	18W	33-cool white	25	
112022	TLD18W/54	18W	54-cool daylight	25	
112033	TLD23W/33	23W	33-cool white	25	
112044	TLD23W/54	23W	54-cool daylight	25	
112055	TLD30W/33	30W	33-cool white	25	
112066	TLD30W/54	30W	54-cool daylight	25	
112077	TLD36W/33	36W	33-cool white	25	
112088	TLD36W/54	36W	54-cool daylight	25	
112099	TLD36W1/33	36W	33-cool white	25	
112110	TLD36W1/54	36W	54-cool daylight	25	
112121	TLD58W/33	58W	33-cool white	25	
112132	TLD58W/54	58W	54-cool daylight	25	

**MASTER TL-E Circular Super 80 - G10q base**

Part Number	Type	Watt	Colour	Package (pcs/pack)
112143	TLE32W/84	32W	840-cool white	12
112154	TLE40W/84	40W	840-cool white	12


**MASTER TL-E Circular Colour 54 - G10q base**

- Standard colours with moderate colour rendering and varying colour designations

**Application:**

- Suitable for use in a wide range of luminaires for various purposes, including many decorative luminaires where colour rendering is not important

Part Number	Type	Watt	Colour	Package (pcs/pack)
112165	TLE22W/54-765	22W	54-cool daylight	12
112176	TLE32W/54-765	32W	54-cool daylight	12
112187	TLE40W/54-765	40W	54-cool daylight	12


**TL-M Rapid Start Colour 33 - G13 base**

Part Number	Type	Watt	Colour	Package (pcs/pack)
112198	TLM20W/33RS	20W	33-cool white	25
112209	TLM40W/33RS	40W	33-cool white	25
112220	TLM65W/33RS	65W	33-cool white	25


**TL Rapid Start Standard Colours - G13 base**

Part Number	Type	Watt	Colour	Package (pcs/pack)
112231	TL40W/33RS	40W	33-cool white	25
112242	TL40W/54RS	40W	54-cool daylight	25





## TL-X XL Explosion-proof, Single-Pin - Fa6 base

- 40W and 65W lamps with internal ignition strip for instant start, non-preheat, starterless operation

**Application:**

- Used in flameproof and increased-safety luminaires for both indoor and outdoor applications
- Used in applications like petro-chemical industry, offshore, mines and any locations where traces of explosive gases may be found

Part Number	Type	Watt	Colour	Package (pcs/pack)
112253	TLX20W/33	20W	33-cool white	25
112264	TLX40W/33	40W	33-cool white	25
112275	TLX65W/33	65W	33-cool white	25



## MASTER TL Mini Super 80 - G5 base

- 16 mm diameter tubes with moderate colour rendering

**Application:**

- Ideal for applications where space is limited and colour rendering is not important
- Orientation lighting
- Emergency lighting

Part Number	Type	Watt	Colour	Package (pcs/pack)
112286	TL8W/827	8W	827-incandescent white	250
112297	TL8W/830	8W	830-warm white	250
112308	TL8W/840	8W	840-cool white	250
112319	TL13W/827	13W	827-incandescent white	250
112330	TL13W/830	13W	830-warm white	250
112341	TL13W/840	13W	840-cool white	250



## MASTER TL Miniature Colour 33 & 54 - G5 base

- 16 mm diameter tubes with moderate colour rendering

**Application:**

- Ideal for applications where space is limited and colour rendering is not important
- Orientation lighting
- Emergency lighting

Part Number	Type	Watt	Colour	Package (pcs/pack)
112352	TL4W/33	4W	33-cool white	250
112363	TL6W/33	6W	33-cool white	250
112374	TL8W/33	8W	33-cool white	250
112385	TL8W/54	8W	54-cool daylight	250
112396	TL13W/33	13W	33-cool white	250
112407	TL13W/54	13W	54-cool daylight	250



**Starters Ecoclick 220-240V**

- Redesigned canister top with 2 installation notches into which the pins of another starter fit perfectly (patented innovation)
- Radioactive-free (patented) and lead-free (RoHS-compliant)
- Premium reliability with 10,000 safe switches
- 2-pin igniter in plastic (flame-retardant polycarbonate) canister with high-quality radio-interference suppression capacitor
- Well-defined preheat and peak voltage ensure proper ignition

**Application:**

- Ignite fluorescent lamps of all brands with conventional electromagnetic ballast using TL-D (T8), TL (T12), TL mini and PL-L lamps
- S2 Ecoclick starters are suitable for:
- S10 Ecoclick starters are suitable for 220/240V, 4-65W single applications
- S10 Ecoclick starter is required for 220/240V, 13W single application
- S2 Ecoclick starter is recommended for 220/240V, 18W single application for optimum performance

Part Number	Type	Watt	Lamp Connection	Package (pcs/pack)	
112418	S2	4-22W	2 in a row	500	
112429	S10	4-65W	1	500	

**Starters Safety & Comfort 220-240V**

Range of premium quality electronic starters for igniting fluorescent lamps operating on conventional electromagnetic ballast.

Part Number	Type	Watt	Lamp Connection	Package (pcs/pack)	
112440	S2-E	18-22W	2 in a row	500	
112451	S10-E	18-75W	1	500	
112462	SIS10	30-65W	1	200	