



Shatterfree fluorescent lighting

MASTER TL-D Secura

This TL-D lamp has a protective coating that keeps glass and lamp components together in the event of accidental breakage. The lamp is easily identifiable by a blue ring at one end. Application areas are all places where glass shatters can disturb operations and can have an impact on product and people safety, e.g. the food and beverage industry. The lamp has a Teflon coating. It is compliant with HACCP regulations.

Benefits

- Special protective coating around the lamp prevents products from contamination in case of accidental lamp breakage, easily recognized in audit situation by one blue ring at one end
- The protective coating has a high temperature-resistance and no degradation to be expected under influence of temperature or UV within specified lamp life (50% failures @ 3 hrs switching cycle)
- Makes luminaires compliant with relevant standards in the industry, such as HACCP, ISO 22000 and IEC 61549

Features

- Protective coating (Surlyn) around the lamp, indicated by two blue rings at one lamp end. This lamp is NOT meant for application in closed luminaires
- Fully compliant with IEC 61549 - Fragment Retention Lamp Standard and with relevant standards in the food industry, such as HACCP and ISO 22000
- No degradation under influence of temperature or UV
- Coating blocks 90 % of UV emission of the lamp
- Fully recyclable, including the protective lamp coating
- Relatively high efficacy, both initially and during lamp lifetime, with high lumen maintenance

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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.)

Warnings and Safety

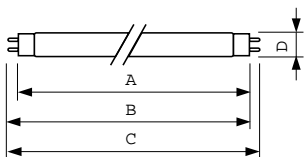
- Not suitable for closed luminaires (as indicated by two blue rings)
- Recommended use in combination with self-stopping lamp control system
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.
- In order to ensure the integrity of the coating, it is strongly recommended to replace Secura lamps before or at the moment the specified lamp life (50% failures @ 3 hrs switching cycle) is reached.

Versions



G13, T8

Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL-D Secura 36W/840 SLV/25	28 mm	1199.4 mm	1206.5 mm	1204.1 mm	1213.6 mm
MASTER TL-D Secura 18W/840 SLV/25	28 mm	589.8 mm	596.9 mm	594.5 mm	604 mm
MASTER TL-D Secura 58W/840 SLV/25	28 mm	1500.0 mm	1507.1 mm	1504.7 mm	1514.2 mm

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Approval and Application

Mercury (Hg) Content (Max)	2 mg
Mercury (Hg) Content (Nom)	2.0 mg

Controls and Dimming

Dimmable	Yes
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General Information

Cap-Base	G13
Life To 50% Failures Preheat (Nom)	20000 h
Life To 10% Failures (Nom)	12000 h
Life To 50% Failures (Nom)	15000 h
LSF 12000 h Rated	89 %
LSF 16000 h Rated	33 %
LSF 2000 h Rated	99 %
LSF 20000 h Rated	2 %
LSF 4000 h Rated	99 %
LSF 6000 h Rated	99 %
LSF 8000 h Rated	99 %

Light Technical

Chromaticity Coordinate X (Nom)	0.38
Chromaticity Coordinate Y (Nom)	0.38
Color Code	840
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Color Rendering Index (Nom)	80
LLMF 12000 h Rated	92 %
LLMF 16000 h Rated	91 %
LLMF 2000 h Rated	96 %
LLMF 20000 h Rated	90 %
LLMF 4000 h Rated	95 %
LLMF 6000 h Rated	94 %
LLMF 8000 h Rated	93 %

Mechanical and Housing

Bulb Shape	T8
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Temperature

Design Temperature (Nom)	25 °C
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Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927920484076	MASTER TL-D Secura 18W/840 SLV/25	19 kWh
927921484076	MASTER TL-D Secura 36W/840 SLV/25	37 kWh
927922484076	MASTER TL-D Secura 58W/840 SLV/25	60 kWh

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927920484076	MASTER TL-D Secura 18W/840 SLV/25	0.360 A	18.2 W
927921484076	MASTER TL-D Secura 36W/840 SLV/25	0.440 A	36.8 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927922484076	MASTER TL-D Secura 58W/840 SLV/25	0.670 A	59.4 W

Light Technical

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Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927920484076	MASTER TL-D Secura 18W/840 SLV/25	72 lm/W	1300 lm	1300 lm
927921484076	MASTER TL-D Secura 36W/840 SLV/25	89 lm/W	3250 lm	3200 lm

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927922484076	MASTER TL-D Secura 58W/840 SLV/25	85.5 lm/W	5100 lm	5000 lm

