

# PRODUCT FAMILY DATASHEET

## SUBMARINE

Damp-proof luminaires for LED tubes

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### AREAS OF APPLICATION

- Basements, garages, warehouses
- For indoor use only



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### PRODUCT BENEFITS

- Energy savings of up to 65 % comp. to luminaires using T8 fluorescent lamps on CCG
- Easy installation thanks to improved space for mounting brackets and easy to open tray
- Quick and easy lamp replacement
- Extremely break resistant. SubstiTUBE Star PC LED-Tube included
- Good, even illumination

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### PRODUCT FEATURES

- Damp-proof luminaire with LED tube for mains voltage operation
- Durable and energy-saving LED luminaire
- Dust-protected and jet-proof (IP65)
- Mercury-free and RoHS compliant
- M20 cable gland for 8-12 mm cables
- Not dimmable

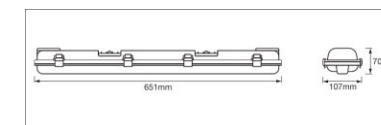
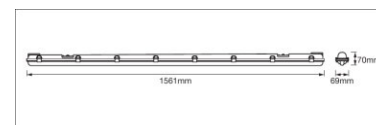
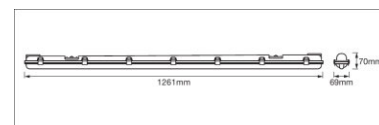
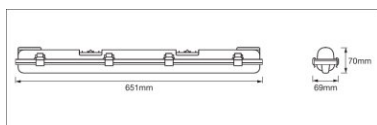


TECHNICAL DATA

Product description	Electrical data				Photometrical data		Light technical data	Dimensions & weight			
	Nominal wattage	Nominal voltage	Mains frequency	Max. power consumption	Color temperature	Luminous flux	Beam angle	Length	Width	Height	Product weight
SUBMARINE 1X8 W 60 4000 K	8.00 W	220...240 V	50/60 Hz	8 W	4000 K	720 lm	140 °	651.0 mm	67.0 mm	75.0 mm	700.00 g
SUBMARINE 1X16 W 120 4000 K	16.00 W	220...240 V	50/60 Hz	16 W	4000 K	1550 lm	140 °	1261 mm	67.0 mm	75.0 mm	1250.00 g
SUBMARINE 1X19 W 150 4000 K	19.00 W	220...240 V	50/60 Hz	19 W	4000 K	1800 lm	140 °	1561 mm	67.0 mm	75.0 mm	1600.00 g
SUBMARINE 2X8 W 60 4000 K	16.00 W	220...240 V	50/60 Hz	16 W	4000 K	1400 lm	140 °	651.0 mm	106.0 mm	75.0 mm	1150.00 g
SUBMARINE 2X16 W 120 4000 K	32.00 W	220...240 V	50/60 Hz	32 W	4000 K	3000 lm	140 °	1261 mm	106.0 mm	75.0 mm	1750.00 g
SUBMARINE 2X19 W 150 4000 K	38.00 W	220...240 V	50/60 Hz	38 W	4000 K	3500 lm	140 °	1561 mm	106.0 mm	75.0 mm	2500.00 g

Product description	Colors & materials				Temperatures & operating conditions	Lifespan	Additional product data	
	Body material	Housing color	Product color	Cover material	Ambient temperature range	Number of switching cycles	Lifespan	Equipped with lamp
SUBMARINE 1X8 W 60 4000 K	Acrylonitrile butadiene styrene (ABS)	Gray	Gray	Polycarbonate (PC)	-20...+35 °C	100000	30000 h	Yes
SUBMARINE 1X16 W 120 4000 K	Acrylonitrile butadiene styrene (ABS)	Gray	Gray	Polycarbonate (PC)	-20...+35 °C	100000	30000 h	Yes
SUBMARINE 1X19 W 150 4000 K	Acrylonitrile butadiene styrene (ABS)	Gray	Gray	Polycarbonate (PC)	-20...+35 °C	100000	30000 h	Yes
SUBMARINE 2X8 W 60 4000 K	Acrylonitrile butadiene styrene (ABS)	Gray	Gray	Polycarbonate (PC)	-20...+35 °C	100000	30000 h	Yes
SUBMARINE 2X16 W 120 4000 K	Acrylonitrile butadiene styrene (ABS)	Gray	Gray	Polycarbonate (PC)	-20...+35 °C	100000	30000 h	Yes
SUBMARINE 2X19 W 150 4000 K	Acrylonitrile butadiene styrene (ABS)	Gray	Gray	Polycarbonate (PC)	-20...+35 °C	100000	30000 h	Yes

Product description	Capabilities			Certificates & standards	
	Dimmable	Type of connection	Holder designation	Protection class	Type of protection
SUBMARINE 1X8 W 60 4000 K	No	Terminal, 3-Pole (L, N, PE)	G13	I	IP65
SUBMARINE 1X16 W 120 4000 K	No	Terminal, 3-Pole (L, N, PE)	G13	I	IP65
SUBMARINE 1X19 W 150 4000 K	No	Terminal, 3-Pole (L, N, PE)	G13	I	IP65
SUBMARINE 2X8 W 60 4000 K	No	Terminal, 3-Pole (L, N, PE)	G13	I	IP65
SUBMARINE 2X16 W 120 4000 K	No	Terminal, 3-Pole (L, N, PE)	G13	I	IP65
SUBMARINE 2X19 W 150 4000 K	No	Terminal, 3-Pole (L, N, PE)	G13	I	IP65

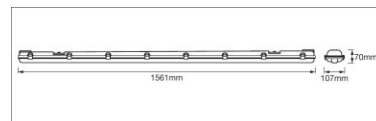
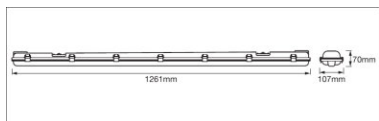


SUBMARINE 1X8 W 60 4000 K

SUBMARINE 1X16 W 120 4000 K

SUBMARINE 1X19 W 150 4000 K

SUBMARINE 2X8 W 60 4000 K



SUBMARINE 2X16 W 120 4000 K

SUBMARINE 2X19 W 150 4000 K

### EQUIPMENT / ACCESSORIES

- SubstiTUBE STAR PC EM are delivered with the product

### APPLICATION ADVICE

For more detailed application information and graphics please see product datasheet.

### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075303935	Shipping carton box 10	670 mm x 156 mm x 400 mm	8562.00 g	41.81 dm <sup>3</sup>
4058075303959	Shipping carton box 9	1280 mm x 225 mm x 245 mm	13189.00 g	70.56 dm <sup>3</sup>
4058075303973	Shipping carton box 6	1582 mm x 235 mm x 182 mm	11455.00 g	67.66 dm <sup>3</sup>

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075303997	Shipping carton box 6	670 mm x 231 mm x 245 mm	8426.00 g	37.92 dm <sup>3</sup>
4058075304017	Shipping carton box 6	1280 mm x 231 mm x 245 mm	12541.00 g	72.44 dm <sup>3</sup>
4058075304031	Shipping carton box 6	1575 mm x 231 mm x 245 mm	17299.00 g	89.14 dm <sup>3</sup>

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

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#### DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.