

PRODUCT FAMILY DATASHEET

SubstiTUBE PURE

Economic LED tubes for electromagnetic control gears



AREAS OF APPLICATION

- Corridors, stairways, parking garages
- Cooling and storage rooms
- Warehouses
- Domestic applications
- General illumination within ambient temperatures from -20...+45 °C

PRODUCT BENEFITS

- High color homogeneity
- Energy savings of up to 68 % compared to conventional 1,500 mm T8 fluorescent lamp
- Instant flickerfree starting

PRODUCT FEATURES

- T8 LED tube made of glass with G13 base
- Mercury-free and RoHS compliant
- Luminous efficacy: up to 95 lm/W
- Type of protection: IP20



TECHNICAL DATA

Product description	Electrical data						Photometrical data					
	Nominal wattage	Rated wattage	Nominal voltage	Operating frequency	Nominal current	Type of current	Light color (designation)	Color temperature	Nominal luminous flux	Rated luminous flux	Color rendering index Ra	Lumen main.fact.at end of nom.life time
ST8P-EM 7.6 W/865 600 mm EM	7.60 W	7.60 W	220...240 V	50...60 Hz	0.037 A	AC	Cool Daylight	6500 K	700 lm	700 lm	>80	0.70
ST8P-EM 7.6 W/840 600 mm EM	7.60 W	7.60 W	220...240 V	50...60 Hz	0.037 A	AC	Cool White	4000 K	700 lm	700 lm	>80	0.70
ST8P-EM 16.2 W/840 1200 mm EM	16.20 W	16.20 W	220...240 V	50...60 Hz	0.078 A	AC	Cool White	4000 K	1500 lm	1500 lm	>80	0.70
ST8P-EM 16.2 W/865 1200 mm EM	16.20 W	16.20 W	220...240 V	50...60 Hz	0.078 A	AC	Cool Daylight	6500 K	1500 lm	1500 lm	>80	0.70
ST8P-EM 19.1 W/840 1500 mm EM	19.10 W	19.10 W	220...240 V	50...60 Hz	0.078 A	AC	Cool White	4000 K	1800 lm	1800 lm	>80	0.70
ST8P-EM 19.1 W/865 1500 mm EM	19.10 W	19.10 W	220...240 V	50...60 Hz	0.078 A	AC	Cool Daylight	6500 K	1800 lm	1800 lm	>80	0.70

Product description	Light technical data			Dimensions & weight				Temperatures & operating conditions	Lifespan
	Starting time	Rated beam angle (half peak value)	Warm-up time (60 %)	Tube diameter	Base diameter	Product weight	Overall length	Ambient temperature range	Nominal lamp life time
ST8P-EM 7.6 W/865 600 mm EM	< 0.5 s	190.00 °	< 0.50 s	25.6 mm	25.5 mm	100.00 g	602.0 mm	-20...+45 °C	30000 h
ST8P-EM 7.6 W/840 600 mm EM	< 0.5 s	190.00 °	< 0.50 s	25.6 mm	25.5 mm	100.00 g	602.0 mm	-20...+45 °C	30000 h
ST8P-EM 16.2 W/840 1200 mm EM	< 0.5 s	190.00 °	< 0.50 s	25.6 mm	25.5 mm	180.00 g	1212 mm	-20...+45 °C	30000 h
ST8P-EM 16.2 W/865 1200 mm EM	< 0.5 s	190.00 °	< 0.50 s	25.6 mm	25.5 mm	180.00 g	1212 mm	-20...+45 °C	30000 h
ST8P-EM 19.1 W/840 1500 mm EM	< 0.5 s	190.00 °	< 0.50 s	25.6 mm	25.5 mm	230.00 g	1513 mm	-20...+45 °C	30000 h
ST8P-EM 19.1 W/865 1500 mm EM	< 0.5 s	190.00 °	< 0.50 s	25.6 mm	25.5 mm	230.00 g	1513 mm	-20...+45 °C	30000 h

Product description	Number of switching cycles	Additional product data		Capabilities	Certificates & standards	Country specific categorizations	Logistical data
		Base (standard designation)	Mercury-free	Dimmable	Type of protection	ILCOS	Temperature range at storage
ST8P-EM 7.6 W/865 600 mm EM	15000	G13	Yes	No	IP20	DR-7.6/865-G13-25.5/590	-20...80 °C
ST8P-EM 7.6 W/840 600 mm EM	15000	G13	Yes	No	IP20	DR-7.6/840-G13-25.5/590	-20...80 °C
ST8P-EM 16.2 W/840 1200 mm EM	15000	G13	Yes	No	IP20	DR-16.2/840-G13-25.5/1200	-20...80 °C
ST8P-EM 16.2 W/865 1200 mm EM	15000	G13	Yes	No	IP20	DR-16.2/865-G13-25.5/1200	-20...80 °C
ST8P-EM 19.1 W/840 1500 mm EM	15000	G13	Yes	No	IP20	DR-19.1/840-G13-25.5/1500	-20...80 °C
ST8P-EM 19.1 W/865 1500 mm EM	15000	G13	Yes	No	IP20	DR-19.1/865-G13-25.5/1500	-20...80 °C



ST8P-EM 7.6 W/865 600 mm EM, ST8P-EM 7.6 W/840 600 mm EM, ST8P-EM 16.2 W/840 1200 mm EM, ST8P-EM 16.2 W/865 1200 mm EM, ST8P-EM 19.1 W/840 1500 mm EM, ST8P-EM 19.1 W/865 1500 mm EM

EQUIPMENT / ACCESSORIES

– Suitable for operation on magnetic control gear

SAFETY ADVICE

Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

APPLICATION ADVICE

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

LOGISTICAL DATA

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4058075024335	ST8P-EM 7.6 W/865 600 mm EM	Shipping carton box 10	668 mm x 154 mm x 65 mm	6.69 dm ³	1348.00 g
4058075024311	ST8P-EM 7.6 W/840 600 mm EM	Shipping carton box 10	668 mm x 154 mm x 65 mm	6.69 dm ³	1350.00 g
4058075024359	ST8P-EM 16.2 W/840 1200 mm EM	Shipping carton box 10	1278 mm x 154 mm x 65 mm	12.79 dm ³	2312.00 g
4058075024373	ST8P-EM 16.2 W/865 1200 mm EM	Shipping carton box 10	1278 mm x 154 mm x 65 mm	12.79 dm ³	2520.00 g
4058075024397	ST8P-EM 19.1 W/840 1500 mm EM	Shipping carton box 10	1578 mm x 154 mm x 65 mm	15.80 dm ³	3040.00 g
4058075024410	ST8P-EM 19.1 W/865 1500 mm EM	Shipping carton box 10	1578 mm x 154 mm x 65 mm	15.80 dm ³	3050.00 g

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.

LEGAL ADVICE

When used to replace a T8 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system.

DISCLAIMER

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