

# TUBE

Robust machine luminaire with the highest quality standards / IP67



The TUBE system luminaire provides effective lighting for machinery and equipment, with M12 connectors for standardised connection.

The luminaire is easy to mount, rotates and offers a circuit-independent service life of 50,000 operating hours.

Depending on the application, you can choose different materials for the tubes: the TUBE is available in chemical-resistant borosilicate glass and in impact-resistant polycarbonate.

Fluctuating temperatures, oil, water or various chemicals therefore affect neither the luminosity nor the service life.

IP67

RoHS  
compliant



Made in  
Germany



IK07

IK08

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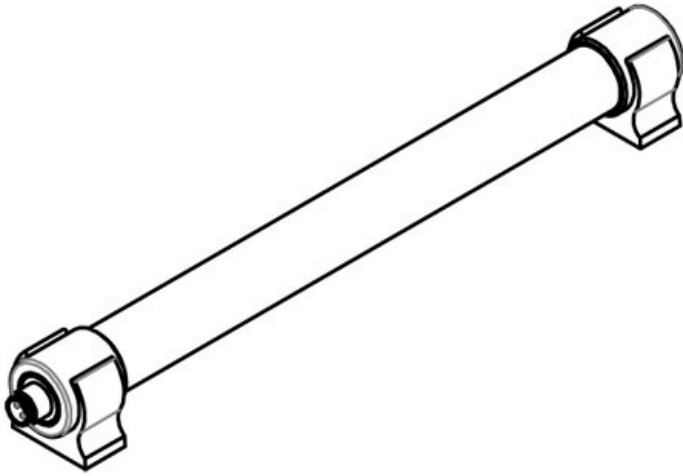
## Specifications

<b>IP rating (EN 60529)</b>	IP67
<b>Protection class</b>	III (Protective extra-low voltage)
<b>Material</b>	Tube: Polycarbonate Tube: Borosilicate glass End caps: Stainless steel
<b>Flame class</b>	
<b>Operating temperature</b>	-20 C° to 50 C°
<b>Mounting options</b>	Snap-in

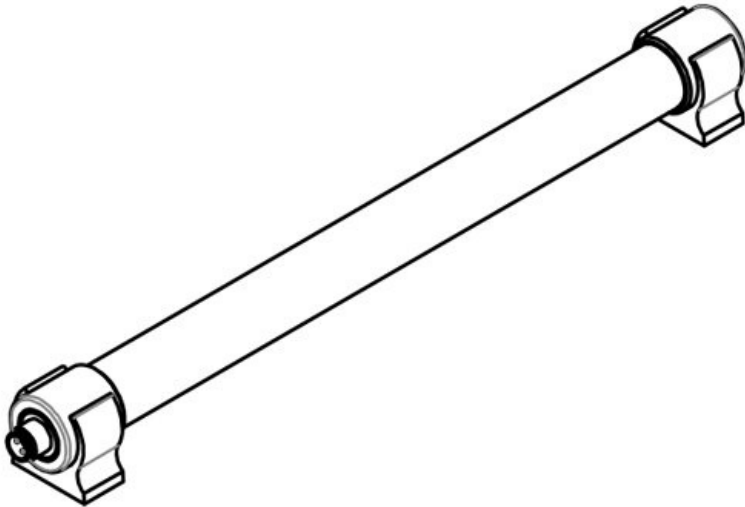
## Advantages & benefits

- Chemical-resistant borosilicate glass or impact-resistant polycarbonate tube
- Protection class IP67
- Completely maintenance-free product
- High energy efficiency thanks to High Power LED
- Compact round design  $\varnothing$  28 mm, suitable for the tightest installation situations
- Easy retrofitting in existing machines
- With rotating LED tube
- Stainless steel end caps
- Cable connection via M12 connector

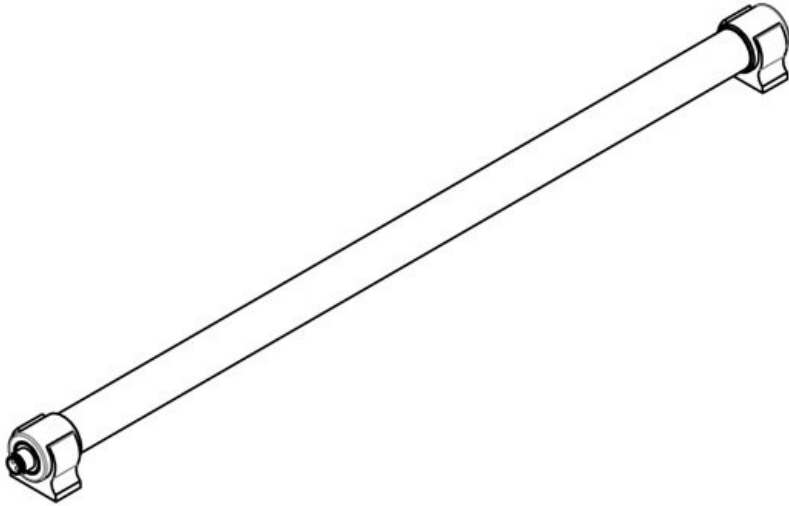
## Product types & sizes

**TUBE 8 W | 300 mm**

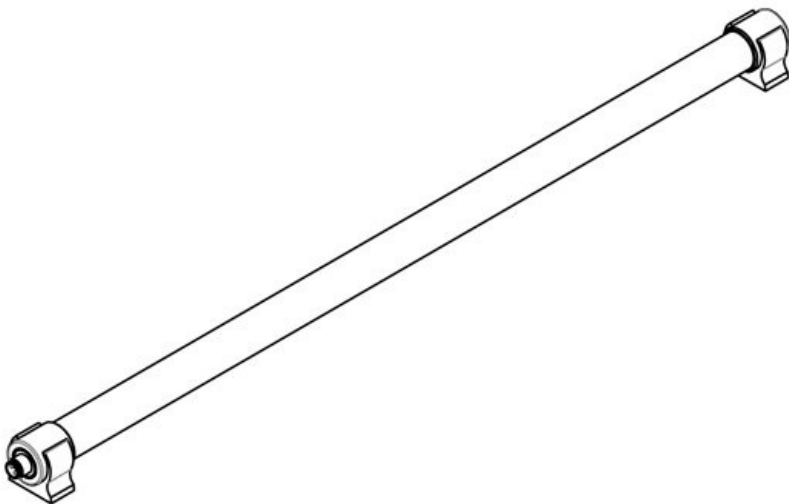
Part No.	<b>81502</b>	End cap diameter	<b>28 mm</b>
EAN	<b>4251269333</b>	Connection possibilities	<b>M12 connector</b>
Package quantity	<b>1</b>	Connector type	<b>M12 flange socket</b>
Length	<b>296,1 mm</b>	Rated power	<b>8 W</b>
Height	<b>36 mm</b>	Operating voltage	<b>24 V, DC</b>
Width	<b>34 mm</b>	Service life	<b>50.000 h</b>
Tube diameter	<b>24 mm</b>	Energy efficiency class	<b>E</b>
		Consumption kWh/1000 h	<b>13</b>
		Colour temperature	<b>5.600 K</b>
		Colour rendering index CRI	<b>&gt;80</b>
		Luminous flux	<b>1.000 lm</b>
		Material tube	<b>Polycarbonate</b>

**TUBE 11,2 W | 330 mm**

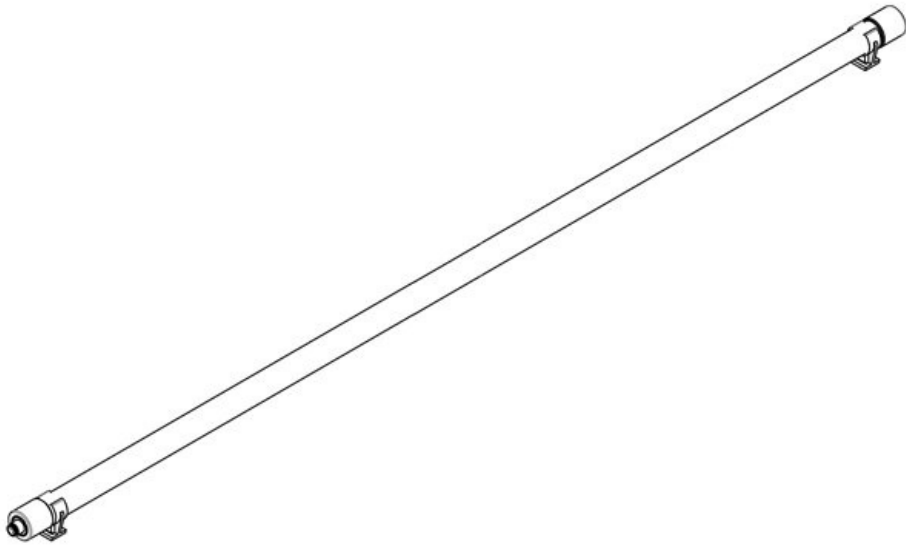
Part No.	<b>81503</b>	End cap diameter	<b>28 mm</b>
EAN	<b>4251269333</b>	Connection possibilities	<b>M12 connector</b>
Package quantity	<b>1</b>	Connector type	<b>M12 flange socket</b>
Length	<b>331,1 mm</b>	Rated power	<b>11,2 W</b>
Height	<b>36 mm</b>	Operating voltage	<b>24 V, DC</b>
Width	<b>34 mm</b>	Service life	<b>50.000 h</b>
Tube diameter	<b>24 mm</b>	Colour temperature	<b>5.000 K</b>
		Colour rendering index CRI	<b>&gt;80</b>
		Luminous flux	<b>1.650 lm</b>
		Material tube	<b>Borosilicate glass</b>

**TUBE 13 W | 570 mm**

Part No.	<b>81500</b>	End cap diameter	<b>28 mm</b>
EAN	<b>4251269333</b>	Connection possibilities	<b>M12 connector</b>
Package quantity	<b>1</b>	Connector type	<b>M12 flange socket</b>
Length	<b>565,1 mm</b>	Rated power	<b>13 W</b>
Height	<b>36 mm</b>	Operating voltage	<b>24 V, DC</b>
Width	<b>34 mm</b>	Service life	<b>50.000 h</b>
Tube diameter	<b>24 mm</b>	Energy efficiency class	<b>E</b>
		Consumption kWh/1000 h	<b>13</b>
		Colour temperature	<b>5.600 K</b>
		Colour rendering index CRI	<b>&gt;80</b>
		Luminous flux	<b>1.700 lm</b>
		Material tube	<b>Polycarbonate</b>

**TUBE 16,8 W | 615 mm**

Part No.	<b>81504</b>	End cap diameter	<b>28 mm</b>
EAN	<b>4251269333</b>	Connection possibilities	<b>M12 connector</b>
Package quantity	<b>1</b>	Connector type	<b>M12 flange socket</b>
Length	<b>615,1 mm</b>	Rated power	<b>16,8 W</b>
Height	<b>36 mm</b>	Operating voltage	<b>24 V, DC</b>
Width	<b>34 mm</b>	Service life	<b>50.000 h</b>
Tube diameter	<b>24 mm</b>	Colour temperature	<b>5.000 K</b>
		Colour rendering index CRI	<b>&gt;80</b>
		Luminous flux	<b>2.775 lm</b>
		Material tube	<b>Borosilicate glass</b>



Part No.	<b>81501</b>	End cap diameter	<b>28 mm</b>
EAN	<b>4251269333</b>	Connection possibilities	<b>M12 connector</b>
Package quantity	<b>1</b>	Connector type	<b>M12 flange socket</b>
Length	<b>1.074,6 mm</b>	Rated power	<b>26 W</b>
Height	<b>39 mm</b>	Operating voltage	<b>24 V, DC ±5%</b>
Width	<b>30,4 mm</b>	Rated current	<b>1,0 A</b>
Tube diameter	<b>24 mm</b>	Service life	<b>50.000 h</b>
		Energy efficiency class	<b>E</b>
		Consumption kWh/1000 h	<b>13</b>
		Colour temperature	<b>5.600 K</b>
		Colour rendering index CRI	<b>&gt;80</b>
		Luminous flux	<b>3.400 lm</b>
		Material tube	<b>Polycarbonate</b>

Connecting cable for TUBE, 5000 mm



Part No.	<b>81530</b>	Material cable sheath	<b>Polyurethane</b>
EAN	<b>4251269333</b>		<b>e</b>
Package quantity	<b>1</b>		
Length connecting cable	<b>5.000 mm</b>		
Connector type	<b>M12 connector, Ferrules</b>		
Operating voltage	<b>24 V DC ±5%</b>		
Colour	<b>black</b>		

**Connecting cable for TUBE, 10000 mm**

Part No.	<b>81531</b>	Material cable	<b>Polyurethan</b>
EAN	<b>4251269333</b>	sheath	<b>e</b>
	<b>170</b>		
Package quantity	<b>1</b>		
Length connecting cable	<b>10.000 mm</b>		
Connector type	<b>M12 connector, Ferrules</b>		
Operating voltage	<b>24 V DC ±5%</b>		
Colour	<b>black</b>		



**Mounting clips TUBE, stainless steel**

Part No.	<b>91443</b>	No. of screw	<b>1</b>
EAN	<b>4251269335</b>	holes	
	<b>082</b>	Diam. of screw	<b>6,5 mm</b>
Package quantity	<b>2</b>	holes	
Length	<b>30 mm</b>		
Height	<b>38 mm</b>		
Width	<b>27 mm</b>		
Colour	<b>black</b>		





Part No.	<b>91070</b>	Colour	<b>black</b>
EAN		No. of screw holes	<b>1</b>
Package quantity	<b>1</b>	Diam. of screw holes	<b>4,2 mm</b>
Length	<b>18,4 mm</b>		
Height	<b>34 mm</b>		
Width	<b>34 mm</b>		
End cap diameter	<b>28 mm</b>		