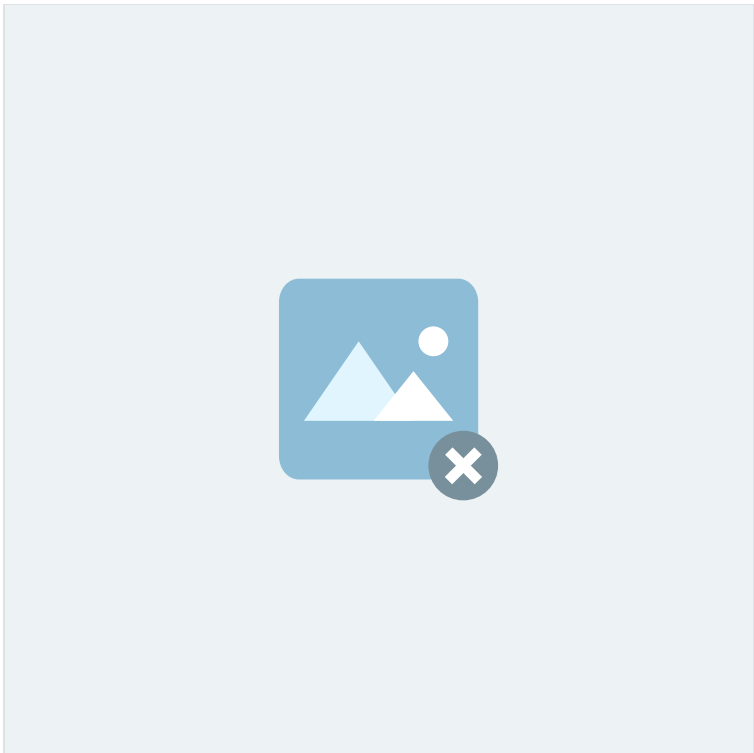


TUBE

Robust, cascadable machine luminaire with signal function / 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 60,000 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.

The TUBE system luminaire is now also available in WHITE, RGB and RGW versions. The coloured light of the TUBE RGB or RGW provides clear visual information, thereby contributing to greater safety. All colours of the RGB colour space can be generated by mixing the three primary colours red, green and blue. TUBE SC (serial connection) versions can also be cascaded.

The connecting cable and the serial connection cable are not included in the scope of delivery and must be ordered separately. Mounting clips are included in the delivery.

IP67

REACH COMPLIANCE

C^{UL} LISTED

Made in Germany

IK08

CE

UK CA

RoHS compliant

Specifications

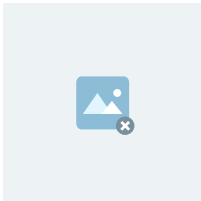
IP rating (EN 60529)	IP67
Protection class	III (Protective extra-low voltage)
Material	Tube: Polycarbonate Tube: Borosilicate glass End caps: Stainless steel
Flame class	
Operating temperature	-20 C° to 50 C°
Mounting options	Snap-in

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 ø 28 mm, suitable for the tightest installation situations
- Easy retrofitting in existing machines
- 360° rotatable
- Clear information thanks to coloured light (RGB, RGW versions)
- Cascadable models available (SC versions)
- Stainless steel end caps
- Cable connection via M12 connector

Product types & sizes

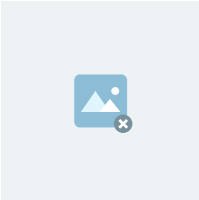
TUBE PC 7W | 360 mm
| WH



Part No.	81550
EAN	4251269338960
Package quantity	1
Length L1	360 mm
Length L2	301 mm
Connection possibilities	M12 connector
Connector type	M12 flange socket

Rated power	7 W
Operating voltage	24 V DC (±5%), UL Class 2
Service life	60.000 h
Colour temperature	5.700 K
Colour rendering index CRI	>80
Luminous flux W	1.210 lm
Cascadable	No
Material tube	Polycarbonate

TUBE BS 7W | 360 mm
| WH



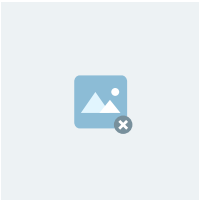
Part No.
EAN
Package quantity
Length L1
Length L2
Connection possibilities
Connector type

81554
4251269338991
1
360 mm
301 mm
M12 connector
M12 flange socket

Rated power
Operating voltage
Service life
Colour temperature
Colour rendering index CRI
Luminous flux W
Cascadable
Material tube

7 W
24 V DC (±5%), UL Class 2
60.000 h
5.700 K
>80
1.210 lm
No
Borosilicate glass

TUBE PC 14W | 640
mm | WH



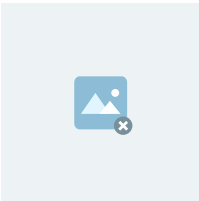
Part No.
EAN
Package quantity
Length L1
Length L2
Connection possibilities
Connector type

81551
4251269338977
1
640 mm
581 mm
M12 connector
M12 flange socket

Rated power
Operating voltage
Service life
Colour temperature
Colour rendering index CRI
Luminous flux W
Cascadable
Material tube

14 W
24 V DC (±5%), UL Class 2
60.000 h
5.700 K
>80
2.420 lm
No
Polycarbonate

TUBE BS 14W | 640
mm | WH



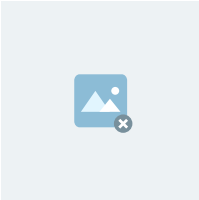
Part No.
EAN
Package quantity
Length L1
Length L2
Connection possibilities
Connector type

81555
4251269339004
1
640 mm
581 mm
M12 connector
M12 flange socket

Rated power
Operating voltage
Service life
Colour temperature
Colour rendering index CRI
Luminous flux W
Cascadable
Material tube

14 W
24 V DC (±5%), UL Class 2
60.000 h
5.700 K
>80
2.420 lm
No
Borosilicate glass

TUBE PC 28W | 1200
mm | WH



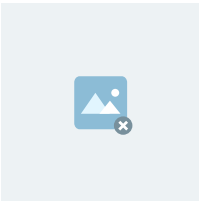
Part No.
EAN
Package quantity
Length L1
Length L2
Connection possibilities
Connector type

81553
4251269338984
1
1.200 mm
1.142 mm
M12 connector
M12 flange socket

Rated power
Operating voltage
Service life
Colour temperature
Colour rendering index CRI
Luminous flux W
Cascadable
Material tube

28 W
24 V DC (±5%), UL Class 2
60.000 h
5.700 K
>80
4.840 lm
No
Polycarbonate

TUBE PC 7W | 370 mm
| WH SC



Part No.
EAN
Package quantity
Length L1
Length L2
Connection possibilities

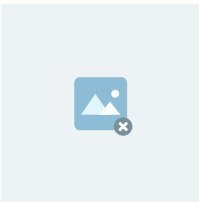
Connector type

81560
4251269339011
1
370 mm
301 mm
M12 connector, Through-wiring
M12 flange socket

Rated power
Operating voltage
Service life
Colour temperature
Colour rendering index CRI
Luminous flux W
Cascadable
Material tube

7 W
24 V DC (±5%), UL Class 2
60.000 h
5.700 K
>80
1.210 lm
Yes
Polycarbonate

TUBE BS 7W | 370 mm
| WH SC



Part No.
EAN
Package quantity
Length L1
Length L2
Connection possibilities

Connector type

81564
4251269339042
1
370 mm
301 mm
M12 connector, Through-wiring
M12 flange socket

Rated power
Operating voltage
Service life
Colour temperature
Colour rendering index CRI
Luminous flux W
Cascadable
Material tube

7 W
24 V DC (±5%), UL Class 2
60.000 h
5.700 K
>80
1.210 lm
Yes
Borosilicate glass

TUBE PC 14W | 650 mm | WH SC

	Part No.	81561	Rated power	14 W
	EAN	4251269339028	Operating voltage	24 V DC (±5%), UL Class 2
	Package quantity	1	Service life	60.000 h
	Length L1	650 mm	Colour temperature	5.700 K
	Length L2	581 mm	Colour rendering index CRI	>80
	Connection possibilities	M12 connector, Through-wiring	Luminous flux W	2.420 lm
	Connector type	M12 flange socket	Cascadable	Yes
			Material tube	Polycarbonate

TUBE BS 14W | 650 mm | WH SC

	Part No.	81565	Rated power	14 W
	EAN	4251269339059	Operating voltage	24 V DC (±5%), UL Class 2
	Package quantity	1	Service life	60.000 h
	Length L1	650 mm	Colour temperature	5.700 K
	Length L2	581 mm	Colour rendering index CRI	>80
	Connection possibilities	M12 connector, Through-wiring	Luminous flux W	2.420 lm
	Connector type	M12 flange socket	Cascadable	Yes
			Material tube	Borosilicate glass

TUBE PC 28W | 1210 mm | WH SC

	Part No.	81563	Rated power	28 W
	EAN	4251269339035	Operating voltage	24 V DC (±5%), UL Class 2
	Package quantity	1	Service life	60.000 h
	Length L1	1.210 mm	Colour temperature	5.700 K
	Length L2	1.142 mm	Colour rendering index CRI	>80
	Connection possibilities	M12 connector, Through-wiring	Luminous flux W	4.840 lm
	Connector type	M12 flange socket	Cascadable	Yes
			Material tube	Polycarbonate

TUBE BS 7W | 360 mm | RGB

	Part No.	81572	Rated power	7 W
	EAN	4251269339080	Operating voltage	24 V DC (±5%), UL Class 2
	Package quantity	1	Service life	60.000 h
	Length L1	360 mm	Colour rendering index CRI	>80
	Length L2	301 mm	Luminous flux R	168 lm
	Connection possibilities	M12 connector	Luminous flux G	267 lm
	Connector type	M12 flange socket	Luminous flux B	173 lm
			Cascadable	No
			Material tube	Borosilicate glass

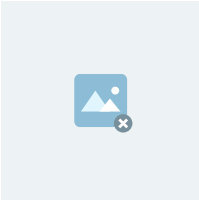
TUBE PC 14W | 640 mm | RGB

	Part No.	81571	Rated power	14 W
	EAN	4251269339073	Operating voltage	24 V DC (±5%), UL Class 2
	Package quantity	1	Service life	60.000 h
	Length L1	640 mm	Colour rendering index CRI	>80
	Length L2	581 mm	Luminous flux R	336 lm
	Connection possibilities	M12 connector	Luminous flux G	534 lm
	Connector type	M12 flange socket	Luminous flux B	267 lm
			Cascadable	No
			Material tube	Polycarbonate

TUBE PC 7W | 360 mm | RGB

	Part No.	81570	Rated power	7 W
	EAN	4251269339066	Operating voltage	24 V DC (±5%), UL Class 2
	Package quantity	1	Service life	60.000 h
	Length L1	360 mm	Colour rendering index CRI	>80
	Length L2	301 mm	Luminous flux R	168 lm
	Connection possibilities	M12 connector	Luminous flux G	267 lm
	Connector type	M12 flange socket	Luminous flux B	173 lm
			Cascadable	No
			Material tube	Polycarbonate

TUBE PC 7W | 370 mm
| RGB SC



Part No.
EAN
Package quantity
Length L1
Length L2
Connection possibilities

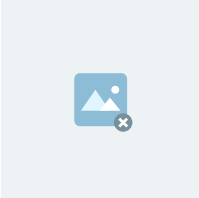
Connector type

81575
4251269339097
1
370 mm
301 mm
M12 connector, Through-wiring
M12 flange socket

Rated power
Operating voltage
Service life
Colour rendering index CRI
Luminous flux R
Luminous flux G
Luminous flux B
Cascadable
Material tube

7 W
24 V DC (±5%), UL Class 2
60.000 h
>80
168 lm
267 lm
173 lm
Yes
Polycarbonate

TUBE BS 7W | 370 mm
| RGB SC



Part No.
EAN
Package quantity
Length L1
Length L2
Connection possibilities

Connector type

81577
4251269339110
1
370 mm
301 mm
M12 connector, Through-wiring
M12 flange socket

Rated power
Operating voltage
Service life
Colour rendering index CRI
Luminous flux R
Luminous flux G
Luminous flux B
Cascadable
Material tube

7 W
24 V DC (±5%), UL Class 2
60.000 h
>80
168 lm
267 lm
173 lm
Yes
Borosilicate glass

TUBE PC 14W | 650 mm
| RGB SC



Part No.
EAN
Package quantity
Length L1
Length L2
Connection possibilities

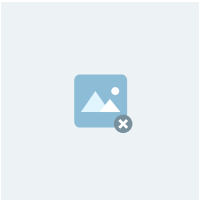
Connector type

81576
4251269339103
1
650 mm
581 mm
M12 connector, Through-wiring
M12 flange socket

Rated power
Operating voltage
Service life
Colour rendering index CRI
Luminous flux R
Luminous flux G
Luminous flux B
Cascadable
Material tube

14 W
24 V DC (±5%), UL Class 2
60.000 h
>80
336 lm
534 lm
267 lm
Yes
Polycarbonate

TUBE PC 7W | 360 mm
| RGW



Part No.
EAN
Package quantity
Length L1
Length L2
Connection possibilities
Connector type

81580
4251269339127
1
360 mm
301 mm
M12 connector
M12 flange socket

Rated power
Operating voltage
Service life
Colour rendering index CRI
Luminous flux R
Luminous flux G
Luminous flux W
Cascadable
Material tube

7 W
24 V DC (±5%), UL Class 2
60.000 h
>80
214 lm
645 lm
1.210 lm
No
Polycarbonate

TUBE BS 7W | 360 mm
| RGW



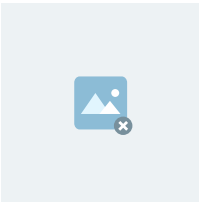
Part No.
EAN
Package quantity
Length L1
Length L2
Connection possibilities
Connector type

81582
4251269339141
1
360 mm
301 mm
M12 connector
M12 flange socket

Rated power
Operating voltage
Service life
Colour rendering index CRI
Luminous flux R
Luminous flux G
Luminous flux W
Cascadable
Material tube

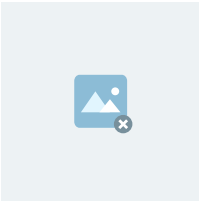
7 W
24 V DC (±5%), UL Class 2
60.000 h
>80
214 lm
645 lm
1.210 lm
No
Borosilicate glass

TUBE PC 14W | 640 mm | RGW



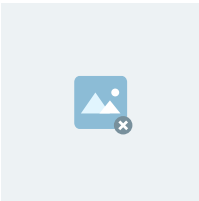
Part No.	81581	Rated power	14 W
EAN	4251269339134	Operating voltage	24 V DC (±5%), UL Class 2
Package quantity	1	Service life	60.000 h
Length L1	640 mm	Colour rendering index CRI	>80
Length L2	581 mm	Luminous flux R	430 lm
Connection possibilities	M12 connector	Luminous flux G	1.290 lm
Connector type	M12 flange socket	Luminous flux W	2.420 lm
		Cascadable	No
		Material tube	Polycarbonate

TUBE BS 14W | 640 mm | RGW



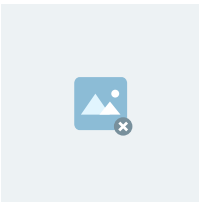
Part No.	81583	Rated power	14 W
EAN	4251269339158	Operating voltage	24 V DC (±5%), UL Class 2
Package quantity	1	Service life	60.000 h
Length L1	640 mm	Colour rendering index CRI	>80
Length L2	581 mm	Luminous flux R	430 lm
Connection possibilities	M12 connector	Luminous flux G	1.290 lm
Connector type	M12 flange socket	Luminous flux W	2.420 lm
		Cascadable	No
		Material tube	Borosilicate glass

TUBE PC 7W | 370 mm | RGW SC



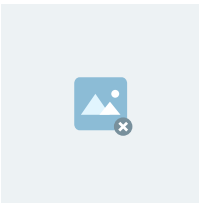
Part No.	81585	Rated power	7 W
EAN	4251269339165	Operating voltage	24 V DC (±5%), UL Class 2
Package quantity	1	Service life	60.000 h
Length L1	370 mm	Colour rendering index CRI	>80
Length L2	301 mm	Luminous flux R	214 lm
Connection possibilities	M12 connector, Through-wiring	Luminous flux G	645 lm
	M12 flange socket	Luminous flux W	1.210 lm
Connector type		Cascadable	Yes
		Material tube	Polycarbonate

TUBE BS 7W | 370 mm | RGW SC



Part No.	81587	Rated power	7 W
EAN	4251269339189	Operating voltage	24 V DC (±5%), UL Class 2
Package quantity	1	Service life	60.000 h
Length L1	370 mm	Colour rendering index CRI	>80
Length L2	301 mm	Luminous flux R	214 lm
Connection possibilities	M12 connector, Through-wiring	Luminous flux G	645 lm
	M12 flange socket	Luminous flux W	1.210 lm
Connector type		Cascadable	Yes
		Material tube	Borosilicate glass

TUBE PC 14W | 650 mm | RGW SC



Part No.	81586	Rated power	14 W
EAN	4251269339172	Operating voltage	24 V DC (±5%), UL Class 2
Package quantity	1	Service life	60.000 h
Length L1	650 mm	Colour rendering index CRI	>80
Length L2	581 mm	Luminous flux R	430 lm
Connection possibilities	M12 connector, Through-wiring	Luminous flux G	1.290 lm
	M12 flange socket	Luminous flux W	2.420 lm
Connector type		Cascadable	Yes
		Material tube	Polycarbonate

TUBE BS 14W | 650 mm | RGW SC

	Part No.	81588	Rated power	14 W
	EAN	4251269339196	Operating voltage	24 V DC (±5%), UL Class 2
	Package quantity	1	Service life	60.000 h
	Length L1	650 mm	Colour rendering index CRI	>80
	Length L2	581 mm	Luminous flux R	430 lm
	Connection possibilities	M12 connector, Through-wiring	Luminous flux G	1.290 lm
		M12 flange socket	Luminous flux W	2.420 lm
	Connector type		Cascadable	Yes
			Material tube	Borosilicate glass

TUBE PC 28W | 1210 mm | RGW SC

	Part No.	81589	Rated power	28 W
	EAN	4251269339202	Operating voltage	24 V DC (±5%), UL Class 2
	Package quantity	1	Service life	60.000 h
	Length L1	1.210 mm	Colour rendering index CRI	>80
	Length L2	1.142 mm	Luminous flux R	860 lm
	Connection possibilities	M12 connector, Through-wiring	Luminous flux G	2.580 lm
		M12 flange socket	Luminous flux W	4.840 lm
	Connector type		Cascadable	Yes
			Material tube	Polycarbonate

Supply cable for TUBE, 5000 mm

	Part No.	81530	Material cable sheath	Polyurethane
	EAN	4251269333163		
	Package quantity	1		
	Length connecting cable	5.000 mm		
	Connector type	M12 connector, Ferrules		
	Operating voltage	24 V DC ±5%		
	Colour	black		

Supply cable for TUBE SC (cascadable), 5000 mm

	Part No.	81590	Material cable sheath	Polyurethane
	EAN	4251269333163		
	Package quantity	1		
	Length connecting cable	5.000 mm		
	Version	M12_Steckverbinder_f		
	Connector type	M12 connector, Ferrules		
	Colour	orange		

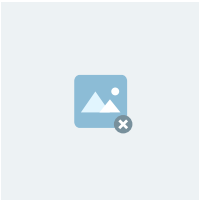
Supply cable for TUBE, 10000 mm

	Part No.	81531	Material cable sheath	Polyurethane
	EAN	4251269333170		
	Package quantity	1		
	Length connecting cable	10.000 mm		
	Connector type	M12 connector, Ferrules		
	Operating voltage	24 V DC ±5%		
	Colour	black		

Supply cable for TUBE SC (cascadable), 10000 mm

	Part No.	81591	Material cable sheath	Polyurethane
	EAN	4251269333170		
	Package quantity	1		
	Length connecting cable	10.000 mm		
	Version	M12_Steckverbinder_f		
	Connector type	M12 connector, Ferrules		
	Colour	orange		

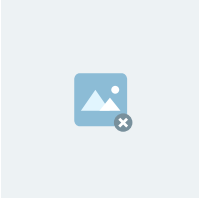
Connection cable for
TUBE SC (cascadable),
2000 mm



Part No.	81595
EAN	4251269339493
Package quantity	1
Length connecting cable	2.000 mm
Version	M12_Steckverbinder_mf
Connector type	M12 connector
Colour	orange

Material cable sheath **Polyurethane**

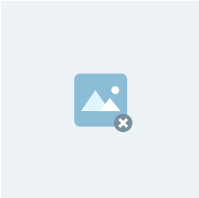
Mounting clips TUBE,
stainless steel



Part No.	91443
EAN	4251269335082
Package quantity	2
Length	30 mm
Height	38 mm
Width	27 mm
Colour	black

No. of screw holes **1**
Diam. of screw holes **6,5 mm**

Mounting clip TUBE,
opening size 28 mm



Part No.	91070
EAN	
Package quantity	1
Length	18,4 mm
Height	34 mm
Width	34 mm
End cap diameter	28 mm

Colour **black**
No. of screw holes **1**
Diam. of screw holes **4,2 mm**