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**tempLED**



HIGH TEMPERATURE CRANE LIGHT  
**tempLED RayCrane HT**

200 | 240 | 500

CRANE LIGHTING 

HIGH TEMPERATURES 

Our customer  
ThyssenKrupp

# tempLED RayCrane HT 200 | 240

initial system efficiency  
up to 150 lm / w



shock- and vibration-resistant  
assembly with screw locking



energy-efficient constant current  
power supply with integrated  
DALI-2 dimming and optional  
constant lumen output (CLO)  
or optional high-voltage version  
(400 volts)



powerful, dust-permeable  
heat sink made of  
die-cast aluminum



impact and UV-resistant high-  
performance optical system  
with three practical beam angles



optional control  
and safety systems:

CASAMBI

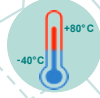
reinforced stainless steel mounting system,  
specialised for use on crane systems with  
rubber buffer for vibration damping



modular overall structure  
with exchangeable and repla-  
ceable main components



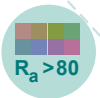
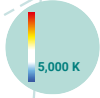
solid luminaire housing  
optimized for high-  
temperature surroundings  
up to **+80° Celsius**



pressure compensation mem-  
brane to prevent condensation



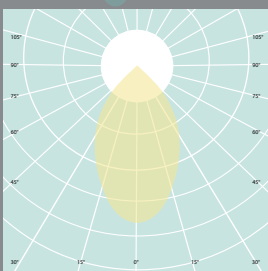
durable and bright  
LED light field



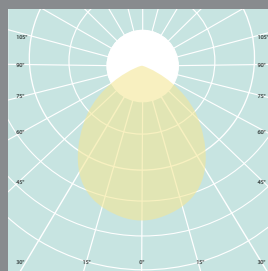
impact-resistant cover  
plate made of 5 mm  
thoughened safety glass



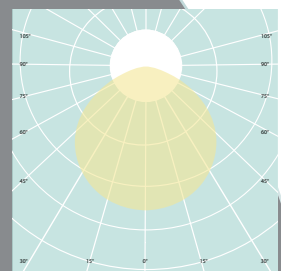
## Light distribution curves tempLED RayCrane HT 200 | 240



60 degrees symmetrical  
optical system



90 degrees symmetrical  
optical system

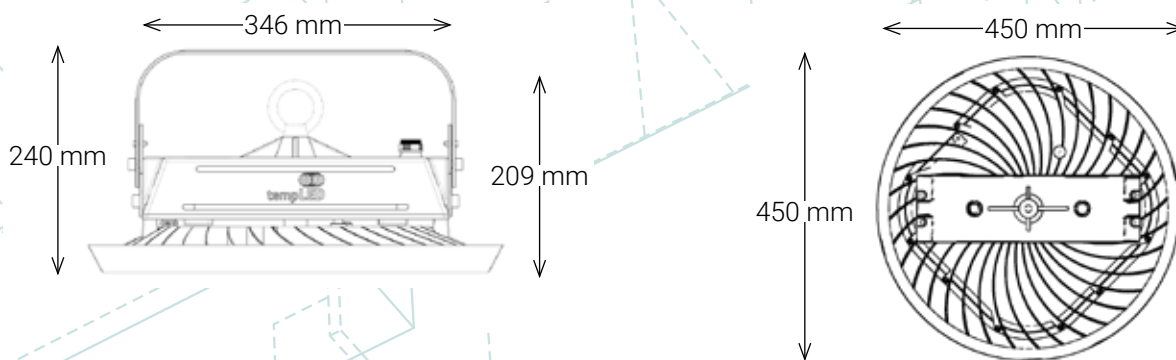


120 degrees symmetrical  
optical system

### tempLED RayCrane HT 200 | 240

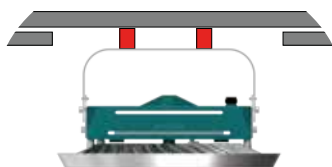


### Dimensions tempLED RayCrane HT 200 | 240



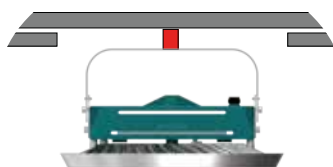
### Mounting options tempLED RayCrane HT 200 | 240

crane mounting with  
two attachment points



crane mounting kit 932810  
in delivery included

crane mounting with  
one attachment point



crane mounting kit 932812  
available as an accessory

## General technical data

according to IEC, identical for all tempLED RayCrane 200 and 240



### Lighting properties:

initial luminous flux:	28,000 to 33,600 lumens
luminous flux tolerance:	± 10 percent
initial system efficiency:	up to 150 lumens / watt
initial, most similar color temperature:	5,000 kelvins <sup>1</sup>
initial color rendering index (CRI):	Ra > 80
initial color consistency:	< 5 SDCM
available symmetrical beam angles:	60   90   120 degrees
photobiological safety:	IEC/TR 62778: 1
compact flicker degree (CFD):	1 percent

### Electrotechnical properties:

power supply AC:	90 to 240 volts <sup>2</sup>
supply frequency:	50 / 60 hertz
power supply DC:	127 to 250 volts <sup>3</sup>
system performance:	200 to 240 watts
system performance tolerance:	± 10 percent
power factor:	> 0.93
overvoltage protection:	yes
overheating protection:	yes
temperature monitoring:	yes
total harmonic distortion (THD):	< 20 percent
temperature classification (ATEX):	T5
Tc - temperature:	+89 degrees Celsius

### Energy characteristics:

Valid for all tempLED RayCrane 200/240 HT with beam angle 60 and 90 degrees:	This product contains a light source of energy efficiency class D.
Valid for all tempLED RayCrane 200 HT with beam angle 120 degrees:	This product contains a light source of energy efficiency class C.

### Mounting options:

standard mounting options:	crane mounting with two attachment points
optional mounting options:	crane mounting with one attachment point customised mounting solutions

<sup>1</sup> additional color temperatures on request.

<sup>2</sup> power supply 249 to 528 VAC - 50/60 Hz on request.

<sup>3</sup> power supply 352 to 500 VDC on request.

**Control and safety properties:**

dimming:	DALI-2
minimum dimming level:	10 percent
constant lumen output (CLO):	optional
control via the Casambi network:	optional <sup>1</sup>
human centric lighting:	on request
daylight control system:	optional via the Casambi network <sup>1</sup>

**Housing properties:**

ambient temperature:	-40 to +80 degrees Celsius
ingress protection:	IP 66
impact resistance level:	IK08
electrical protection class:	I
limited surface temperature (D):	yes
pressure compensation membrane:	yes
housing and heat sink material(s):	die-cast aluminum
material(s) and finish of the standard mounting bracket:	reinforced stainless steel, finish: natural <sup>2</sup>
material of optical system:	impact- and UV-resistant polycarbonate
cover plate material:	5 mm impact-resistant toughened safety glass, clear
luminaire housing color:	white aluminium according to RAL 9006 <sup>2</sup>
power supply housing color:	water blue according to RAL 5021 <sup>2</sup>
surface finish:	powder coating <sup>2</sup>
supply cable type:	H05RN-F 5G1
supply cable length:	250 centimeters
supply cable inlet:	cable gland
supply cable connection type:	open cable end
number of poles:	3 grid / 2 DALI

**Additional information:**

certificates:	ENEC in preparation
conformities:	CE and RoHS
lifespan (L70B10C1):	approx. 100,000 hours
lifespan (L90B10C1):	approx. 50,000 hours
guarantee:	5 years <sup>3</sup>
spare part guarantee:	10 years
delievery includes:	luminaire, reinforced stainless steel bracket, crane mounting kit with two attachment points and rope suspension as fall protection

<sup>1</sup> can only be used at ambient temperatures of max. +50 degrees Celsius

<sup>2</sup> optional luminaire housing colors and finishes: Paintings according to RAL colour chart, powder coatings according to RAL colour chart or synthetic resin coating.

<sup>3</sup> according to the warranty conditions of tempLED GmbH, excluding accessories.

**Logistic information:**

luminaire:	RayCrane 200   240 HT
number of luminaires per package:	1
number of luminaires per pallet:	28
net weight of the luminaire:	9,500 g
gross weight per package:	11,500 g
package dimensions L x W x H:	510 x 510 x 270 mm

## tempLED 200

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## RayCrane 200 - 60 HT

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## RayCrane 200 - 120 HT

article number:	300665	300625
GTIN / EAN:	4260745234498	4260745234481
initial luminous flux:	28,000 lm	30,000 lm
initial system efficiency:	140 lm/w	150 lm/w
initial, most similar color temperature:	5,000 K	5,000 K
light distribution:	symmetrical	symmetrical
beam angle:	60 degrees	120 degrees
dimming / control:	DALI-2	DALI-2
system performance:	200 W	200 W
power consumption:	0.90 A	0.90 A
maximum inrush current:	24 A	24 A
dimensions (Ø x H):	450 x 240 mm	450 x 240 mm

## tempLED 240

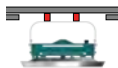
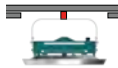








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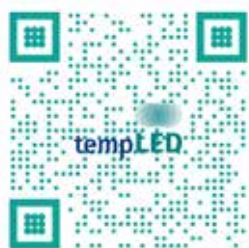
## RayCrane 240 - 60 HT

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## RayCrane 240 - 90 HT

article number:	300765	300795
GTIN / EAN:	4260745234504	4260745234511
initial luminous flux:	33,600 lm	33,600 lm
initial system efficiency:	140 lm/w	140 lm/w
initial, most similar color temperature:	5,000 K	5,000 K
light distribution:	symmetrical	symmetrical
beam angle:	60 degrees	90 degrees
dimming / control:	DALI-2	DALI-2
system performance:	240 W	240 W
power consumption:	1.04 A	1.04 A
maximum inrush current:	24 A	24 A
dimensions (Ø x H):	450 x 240 mm	450 x 240 mm

tempLED	Accessory catalogue RayCrane 200 and 240 HT	art.-no.	GTIN / EAN
	<b>crane mounting kit</b> with <b>two</b> attachment points with rubber buffer shock-absorbing installation device for luminaire mounting on vibration-loaded crane systems, size: M10, material: stainless steel, finish: natural, delivery as a set of 2, included in the delivery of all tempLED RayCranes	932810	4260491842114
	<b>crane mounting kit</b> with <b>one</b> attachment point with rubber buffer shock-absorbing installation device for luminaire mounting on vibration-loaded crane systems, size: M10, material: stainless steel, finish: natural	932812	4260745230636
	<b>supply cable extension</b> ready-to-use 3-pin supply cable extension up to 10 meters	333903	4260491843760
	<b>safety plug</b> 3-pin safety plug with ingress protection IP 44, installed on the supply cable of the luminaire	945400	4260491842251
	<b>Wieland connector RST 20i5</b> 5-pin socket part; color coding: turquoise blue, 250 V, 20 A, with protective conductor, for cable diameter 6 - 10 mm	945430	4260491842329
	<b>Wieland connector RST 20i5</b> 5-pin connector part; color coding: turquoise blue, 250 V, 20 A, with protective conductor, installed on the supply cable of the luminaire	945431	4260491842336
	<b>kit for outsourcing the integrated power supply unit</b> kit for outsourcing the power supply unit installed as standard in the luminaire housing, e.g. in a switch cabinet, delivery includes: 1 m light field cable H07RN-F5G1, 1x Wieland socket RST20i5, 1x Wieland plug RST20i5, maximum possible distance between luminaire and power supply unit: 35 m	932402	4260745234566
	<b>preassembly for outsourcing the integrated power supply unit - cable length: 35 m</b> preassembled cable set for relocation of the power supply unit installed as standard in the luminaire housing e.g. in a control cabinet, scope of delivery: preassembled light field cable output with mounted Wieland plug RST20i5 on luminaire side, 35 m ready-made connecting cable H07RN-F5G1 black connection cable between luminaire and power supply unit, preassembled output cable with mounted Wieland socket RST20i5 on power supply side	932403	4260745234573
	<b>cover plate polycarbonate</b> impact-resistant cover plate, thickness 5 mm, material: polycarbonat, finish: clear	333902	42604919843753
	<b>Casambi control unit</b> for integrating and controlling the luminaire via the Casambi network, can only be used at ambient temperatures of max. +50 degrees Celsius, mounted on the luminaire ready for use	934187	4260669198203



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download portal



LED is sustainable.  
LED is the future.

tempLED luminaires fulfil a recycling rate of > 90%.  
That is our product promise to you.

When will you start?

# tempLED RayCrane HT 500

initial system efficiency up to 165 lm / w



shock- and vibration-resistant assembly with screw locking



two energy-efficient constant current power supplies with integrated DALI-2 dimming and optional constant lumen output (CLO) or optional high-voltage version (400 volts)



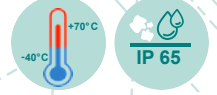
reinforced stainless steel mounting system, specialised for use on crane systems with rubber buffer for vibration damping



modular overall structure with exchangeable and replaceable main components



solid luminaire housing optimized for high-temperature surroundings up to **+70° Celsius**



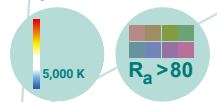
pressure compensation membrane to prevent condensation



powerful, dust-permeable heat sink made of die-cast aluminum



five durable and bright LED light fields



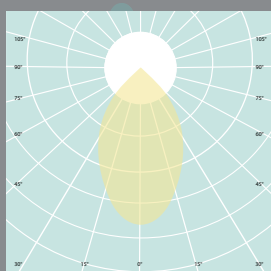
optional control and safety systems:



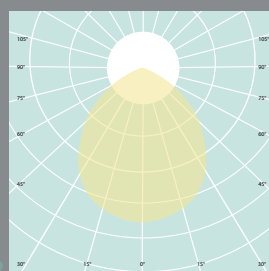
impact and UV-resistant high-performance optical system in collimator technology for stray light reduction with two practical beam angles



## Light distribution curves tempLED RayCrane HT 500



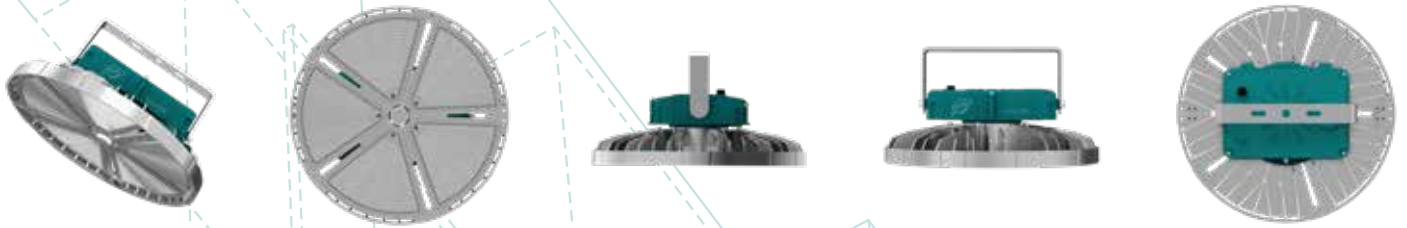
60 degrees symmetrical linear technology



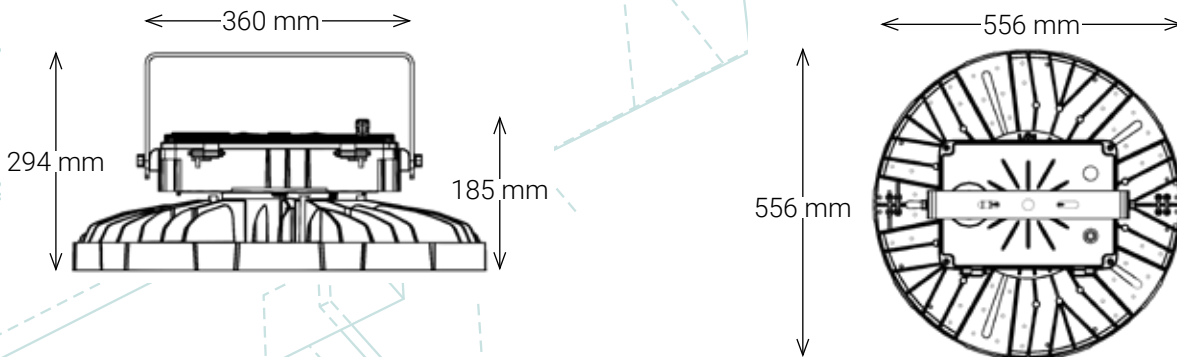
90 degrees symmetrical linear technology



## tempLED RayCrane HT 500



## Dimensions tempLED RayCrane HT 500



## Mounting options tempLED RayCrane HT 500

crane mounting with two attachment points



crane mounting kit 932810  
in delivery included

crane mounting with one attachment point



crane mounting kit 932812  
available as an accessory

## General technical data

according to IEC, identical for all tempLED RayCrane 500 HT



### Lighting properties:

initial luminous flux:	82,500 lumens
luminous flux tolerance:	± 10 percent
initial system efficiency:	up to 165 lumens / watt
initial, most similar color temperature:	5,000 kelvins <sup>1</sup>
initial color rendering index (CRI):	Ra > 80
initial color consistency:	< 5 SDCM
available symmetrical beam angles:	60 and 90 degrees
photobiological safety:	IEC/TR 62778: 1
compact flicker degree (CFD):	1 percent
stray light reduction:	yes, with linear technology

### Electrotechnical properties:

power supply AC:	90 to 240 volts <sup>2</sup>
supply frequency:	50 / 60 hertz
power supply DC:	140 to 250 volts <sup>3</sup>
system performance:	500 watts
system performance tolerance:	± 10 percent
integrated power supplies:	two
power factor:	> 0.90
overvoltage protection:	yes
overheating protection:	yes
temperature monitoring:	yes
total harmonic distortion (THD):	< 20 percent
temperature classification (ATEX):	T5
Tc - temperature:	+89 degrees Celsius

### Energy characteristics:

Valid for all tempLED RayCrane 500 HT:	This product contains a light source of energy efficiency class C.
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### Mounting options:

standard mounting options:	crane mounting with two attachment points
optional mounting options:	crane mounting with one attachment point customised mounting solutions

<sup>1</sup> additional color temperatures on request.

<sup>2</sup> power supply 249 to 528 VAC - 50/60 Hz on request.

<sup>3</sup> power supply 352 to 500 VDC on request.

**Control and safety properties:**

dimming:	DALI-2
minimum dimming level:	10 percent
constant lumen output (CLO):	optional
control via the Casambi network:	optional <sup>1</sup>
human centric lighting:	on request
daylight control system:	optional via the Casambi network <sup>1</sup>

**Housing properties:**

ambient temperature:	-40 to +70 degrees Celsius
ingress protection:	IP 65
impact resistance level:	IK08
electrical protection class:	I
limited surface temperature (D):	yes
pressure compensation membrane:	yes
housing and heat sink material(s):	die-cast aluminum
material(s) and finish of the standard mounting bracket:	reinforced stainless steel, finish: natural <sup>2</sup>
material of optical system:	impact- and UV-resistant polycarbonate
cover plate material:	optional (335900)
luminaire housing color:	white aluminium according to RAL 9006 <sup>2</sup>
power supply housing color:	water blue according to RAL 5021 <sup>2</sup>
surface finish:	powder coating <sup>2</sup>
supply cable type:	H05RN-F 5G1
supply cable length:	250 centimeters
supply cable inlet:	cable gland
supply cable connection type:	open cable end
number of poles:	3 grid / 2 DALI

**Additional information:**

certificates:	ENEC in preparation
conformities:	CE and RoHS
lifespan (L70B10C1):	approx. 100,000 hours
lifespan (L90B10C1):	approx. 50,000 hours
guarantee:	5 years <sup>3</sup>
spare part guarantee:	10 years
delievery includes:	luminaire, reinforced stainless steel bracket, crane mounting kit with two attachment points and rope suspension as fall protection

<sup>1</sup> can only be used at ambient temperatures of max. +50 degrees Celsius.

<sup>2</sup> optional luminaire housing colors and finishes: Paintings according to RAL colour chart, powder coatings according to RAL colour chart or synthetic resin coating.

<sup>3</sup> according to the warranty conditions of tempLED GmbH, excluding accessories.

**Logistic information:**

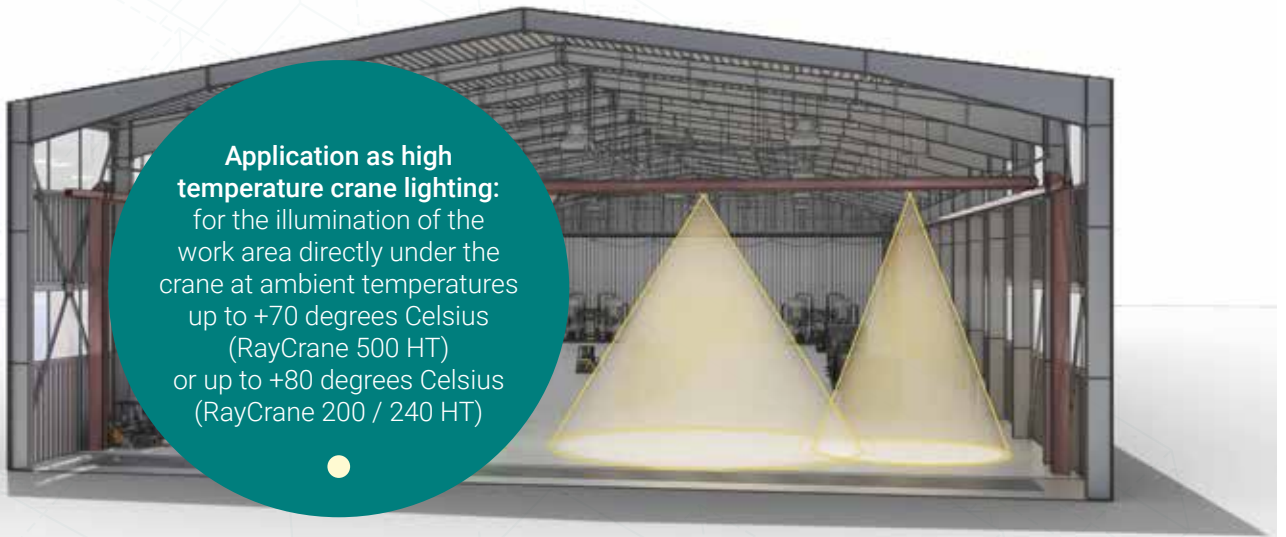
luminaire:	RayCrane 500 HT
number of luminaires per package:	1
number of luminaires per pallet:	8
net weight of the luminaire:	18,700 g
gross weight per package:	21,500 g
package dimensions L x W x H:	750 x 700 x 330 mm


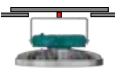








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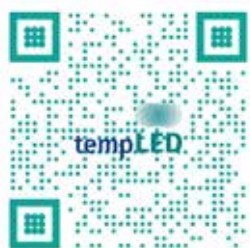
## tempLED 500

	RayCrane 500 - 60 HT	RayCrane 500 - 90 HT
article number:	300865	300895
GTIN / EAN:	4260745234528	4260745234535
initial luminous flux:	82,500 lm	82,500 lm
initial system efficiency:	165 lm/w	165 lm/w
initial, most similar color temperature:	5,000 K	5,000 K
light distribution:	symmetrical	symmetrical
beam angle:	60 degrees	90 degrees
dimming / control:	DALI-2	DALI-2
system performance:	500 W	500 W
power consumption:	2.17 A	2.17 A
maximum inrush current:	80 A	80 A
dimensions (Ø x H):	556 x 294 mm	556 x 294 mm

**Application as high temperature crane lighting:**  
for the illumination of the work area directly under the crane at ambient temperatures up to +70 degrees Celsius (RayCrane 500 HT) or up to +80 degrees Celsius (RayCrane 200 / 240 HT)



tempLED	Accessory catalogue RayCrane 500 HT	art.-no.	GTIN / EAN
	<b>crane mounting kit</b> with <b>two</b> attachment points with rubber buffer shock-absorbing installation device for luminaire mounting on vibration-loaded crane systems, size: M10, material: stainless steel, finish: natural, delivery as a set of 2, included in the delivery of all tempLED RayCranes	932810	4260491842114
	<b>crane mounting kit</b> with <b>one</b> attachment point with rubber buffer shock-absorbing installation device for luminaire mounting on vibration-loaded crane systems, size: M10, material: stainless steel, finish: natural	932812	4260745230636
	<b>supply cable extension</b> ready-to-use 3-pin supply cable extension up to 10 meters	333903	4260491843760
	<b>safety plug</b> 3-pin safety plug with ingress protection IP 44, installed on the supply cable of the luminaire	945400	4260491842251
	<b>Wieland connector RST 20i5</b> 5-pin socket part; color coding: turquoise blue, 250 V, 20 A, with protective conductor, for cable diameter 6 - 10 mm	945430	4260491842329
	<b>Wieland connector RST 20i5</b> 5-pin connector part; color coding: turquoise blue, 250 V, 20 A, with protective conductor, installed on the supply cable of the luminaire	945431	4260491842336
	<b>kit for outsourcing the integrated power supply units</b> kit for outsourcing the power supply units installed as standard in the luminaire housing, e.g. in a switch cabinet, delivery includes: 2x 1 m light field cable H07RN-F5G1, 2x Wieland socket RST20i5, 2x Wieland plug RST20i5, maximum possible distance between luminaire and power supply unit: 35 m	932400	4260745234542
	<b>preassembly for outsourcing the integrated power supply units - cable length: 35 m</b> preassembled cable set for outsourcing the power supply units installed as standard in the luminaire housing e.g. in a switch cabinet, scope of delivery: preassembled light field cable with mounted outlets with mounted Wieland RST20i5 plugs on luminaire side, 35 m ready-made connection cable H07RN-F5G1 black between luminaire and power supply unit, preassembled y-cable with mounted Wieland socket RST20i5 on power supply side	932401	4260745234559
	<b>wear disc</b> impact-resistant wear disc, material: toughened safety glass, thickness: 5 millimeters, finish: clear, can be mounted and replaced without tools, delivery includes mounting material	335900	4260491844590
	<b>Casambi control unit</b> for integrating and controlling the luminaire via the Casambi network, can only be used at ambient temperatures of max. +50 degrees Celsius, mounted on the luminaire ready for use	934189	4260669198227



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