

[www.tempLED.de](http://www.tempLED.de)

  
**tempLED**

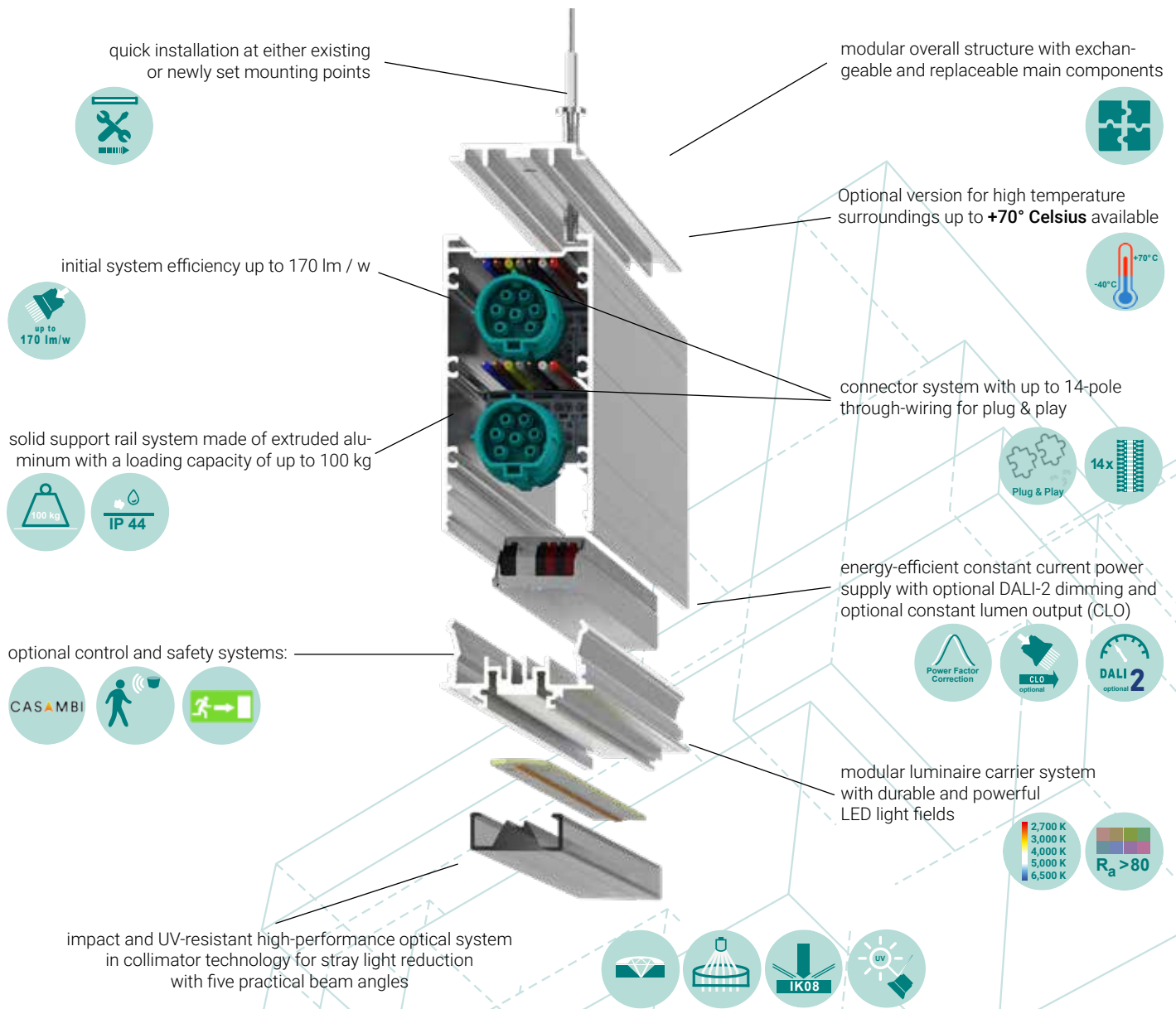


LINE LIGHTING SYSTEM  
**tempLED RayLine Max**  
25 | 40 | 70 | 100

HALL LIGHTS   
HIGH TEMPERATURES 

Our customer  
Dinkhauser

# tempLED



## Light distribution curves tempLED RayLine Max 25 | 40 | 70 | 100



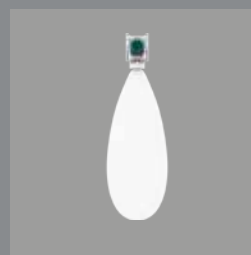
**ASY**  
one-sided left or right  
asymmetric narrow beam  
collimator technology



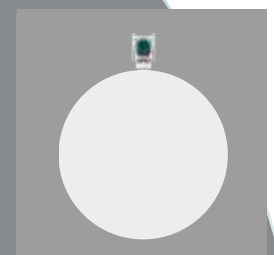
**BATWING**  
symmetric wide beam  
beam angle: approx. 90 degrees  
collimator technology



**DASY**  
double-sided asymmetric  
narrow beam  
collimator technology

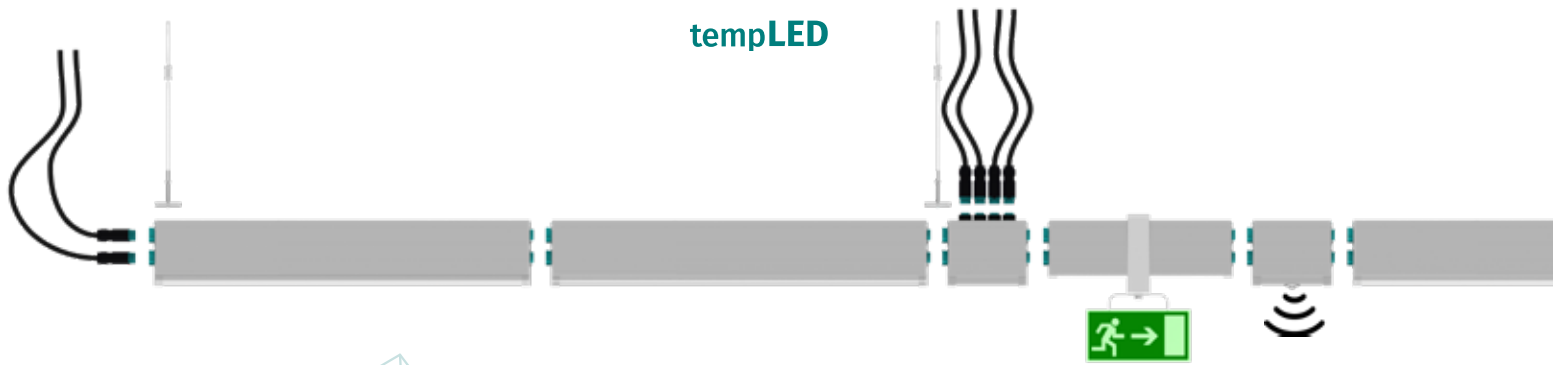


**INTENSE**  
symmetric narrow beam  
beam angle: approx. 40 degrees  
collimator technology

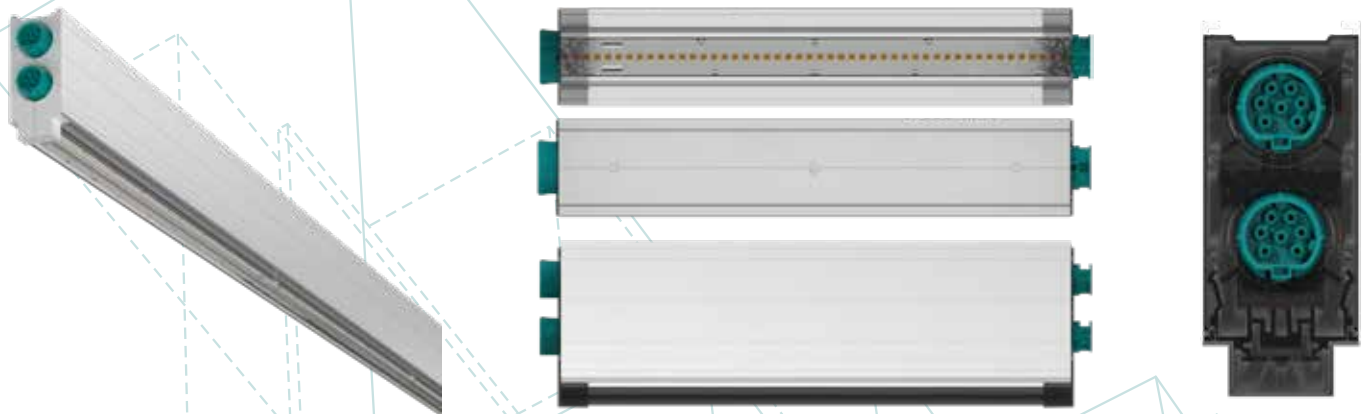


**OPAL**  
symmetric  
diffuse light distribution  
beam angle: approx. 120 degrees

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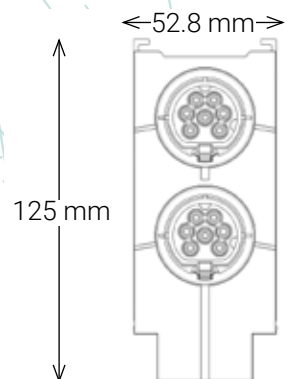
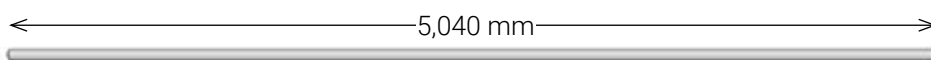
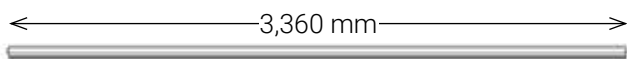
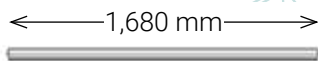


## tempLED RayLine Max



## Dimensions tempLED RayLine Max

1,680 mm | 3,360 mm | 5,040 mm

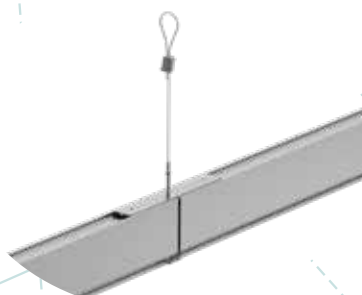


## Mounting options tempLED RayLine Max

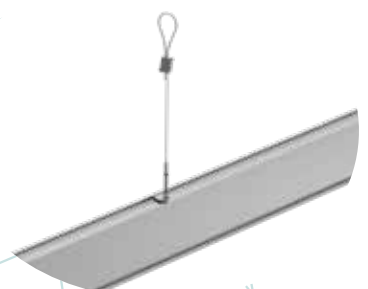
ceiling mounting

height-adjustable rope suspension  
(0.10 - 4.90 m), combined  
with mounting rail connector

height-adjustable rope suspension  
(0.10 - 4.90 m), combined  
with mounting adapter



for the use of newly  
installed mounting points  
or rope suspensions



for the use of already  
existing mounting points  
or rope suspensions

## General technical data

according to IEC, identical for all types of luminaires



### Lighting properties:

initial luminous flux:	approx. 4,080 to 17,000 lumens
luminous flux tolerance:	± 10 percent
initial system efficiency:	up to 170 lumens / watt
initial, most similar color temperature:	2,700   3,000   4,000   5,000   6,500 kelvins <sup>1</sup>
initial color rendering index (CRI):	Ra > 80
initial color consistency:	< 3 SDCM
available symmetric beam angles:	BATWING   INTENSE   OPAL
available asymmetrical beam angles:	ASY (left- and right-sided)   DASYS
photobiological safety:	IEC/TR 62778: 1
compact flicker degree (CFD):	on request
stray light reduction:	yes, with collimator technology

### Electrotechnical properties:

power supply AC:	198 to 240 volts
supply frequency:	50 / 60 hertz
power supply DC:	176 to 250 volts
system performance:	25 to 100 watts
system performance tolerance:	± 10 percent
power factor:	> 0.95
overvoltage protection:	yes
overheating protection:	yes
temperature monitoring:	yes
total harmonic distortion (THD):	< 10 percent
temperature classification (ATEX):	T6
Tc - temperature:	+75 degrees Celsius

### Energy characteristics:

Valid for all tempLED RayLine Max 25 with 2,700 - 6,500 kelvins:	This product contains a light source of energy efficiency class C.
Valid for all tempLED RayLine Max 40 - 100 with 2,700 - 6,500 kelvins:	This product contains a light source of energy efficiency class B.

### Mounting options:

mounting options:	ceiling mounting height-adjustable pendant mounting with cable suspension (0.10 to 4.90 m) pendant mounting with chain suspension
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<sup>1</sup> additional color temperatures on request.

**Control and safety properties:**

dimming:	DALI-2 optional
minimum dimming level:	10 percent
constant lumen output (CLO):	optional
control via the Casambi network:	optional (types with DALI dimming only) <sup>1</sup>
emergency light module:	optional <sup>1</sup>
human centric lighting:	on request
daylight control system:	optional via the Casambi network (types with DALI dimming only) <sup>1</sup>
occupancy control:	optional via motion sensor system (types with DALI dimming only) <sup>1</sup>

**Housing properties:**

standard ambient temperature:	–40 to +50 degrees Celsius
optional ambient temperature:	–40 to +70 degrees Celsius
standard ingress protection:	IP 44
optional ingress protection:	IP 55   IP 65
impact resistance level:	IK08
electrical protection class:	I
limited surface temperature (D):	yes
housing and heat sink material(s):	extruded aluminum
material of optical system:	impact- and UV-resistant PMMA
material of diffuser:	impact- and UV-resistant polycarbonate
luminaire housing color:	aluminium natural <sup>2</sup>
surface finish:	bare   anodized <sup>2</sup>
supply cable inlet:	connector system
standard number of poles with through-wiring:	9
optional number of poles with through-wiring:	11   14

**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
delivery includes:	prefabricated luminaire

<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.

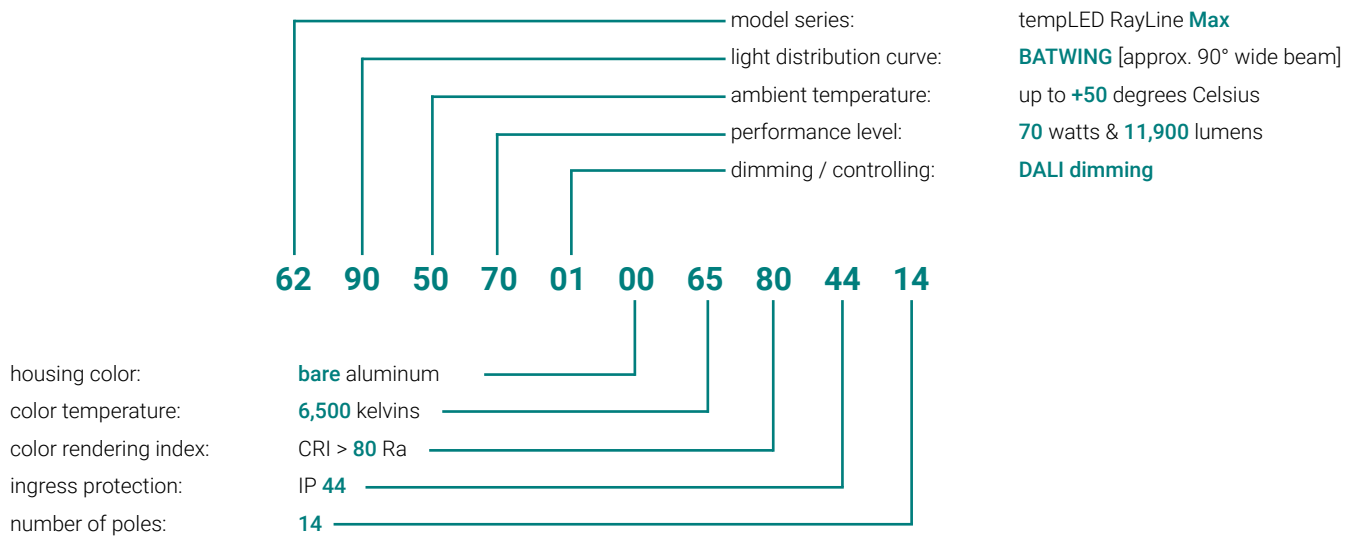
<sup>3</sup> according to the warranty conditions of tempLED GmbH, excluding accessories.

**Logistic information:**

maximum weight per mounting rail unit with 1.68 meter length:	5,400 g
maximum weight per mounting rail unit with 3,36 meter length:	10,500 g
maximum weight per mounting rail unit with 5,04 meter length:	15,700 g
amount of line meter per wooden box:	approx. 100
dimensions per wooden box L x W x H:	5,150 x 796 x 442 mm
net weight per wooden box:	20,000 g

## tempLED RayLine Max - this is how you order your line luminaire:











sample article number













## tempLED RayLine Max - all variants and options at a glance:

article number matrix

model series:	62										tempLED RayLine <b>Max</b>
light distribution curve:		20									<b>ASY</b> [left-sided asymmetric narrow beam]
		21									<b>ASY</b> [right-sided asymmetric narrow beam]
		90									<b>BATWING</b> [approx. 90° symmetric wide beam]
		22									<b>DASY</b> [two-sided asymmetric narrow beam]
		40									<b>INTENSE</b> [approx. 40° symmetric narrow beam]
		12									<b>OPAL</b> [approx. 120° symmetric diffuse light distribution]
ambient temperature:			50								-40 to <b>+50 degrees</b> Celsius
			70								-40 to <b>+70 degrees</b> Celsius
performance level:				25							<b>25</b> watts / approx. <b>4,080</b> lumens
				40							<b>40</b> watts / approx. <b>6,800</b> lumens
				70							<b>70</b> watts / approx. <b>11,900</b> lumens
				99							<b>100</b> watts / approx. <b>17,000</b> lumens
controlling / dimming:					00						<b>on / off</b>
					01						<b>DALI-2 dimming</b>
					11						constant lumen output ( <b>CLO</b> )
housing color:						00					<b>bare</b> aluminium
						01					<b>anodized</b> aluminium
color temperature:							27				<b>2,700</b> kelvins
							30				<b>3,000</b> kelvins
							40				<b>4,000</b> kelvins
							50				<b>5,000</b> kelvins
							65				<b>6,500</b> kelvins
color rendering index:								80			CRI > <b>80</b> Ra
ingress protection:									44		<b>IP 44</b>
									55		<b>IP 55</b>
									65		<b>IP 65</b>
number of poles:										09	<b>9-pole</b> with through-wiring
										11	<b>11-pole</b> with through-wiring
										14	<b>14-pole</b> with through-wiring

tempLED	System components catalogue RayLine Max	art.-no.	GTIN / EAN
	<b>mounting rail 1.68, 9-pole</b> single mounting rail for the RayLine Max line lighting system, length: 1.68 m, wiring: 9 x 2.5 mm <sup>2</sup> , material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	062100 062109	4260745230940 4260745232913
	<b>mounting rail 3.36, 9-pole</b> single mounting rail for the RayLine Max line lighting system, length: 3.36 m, wiring: 9 x 2.5 mm <sup>2</sup> , material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	062101 062110	4260745230957 4260745232920
	<b>mounting rail 5.04, 9-pole</b> single mounting rail for the RayLine Max line lighting system, length: 5.04 m, wiring: 9 x 2.5 mm <sup>2</sup> , material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	062102 062111	4260745230964 4260745232937
	<b>mounting rail 1.68, 11-pole</b> single mounting rail for the RayLine Max line lighting system, length: 1.68 m, wiring: 11 x 2.5 mm <sup>2</sup> , material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	062103 062112	4260491849687 4260745232944
	<b>mounting rail 3.36, 11-pole</b> single mounting rail for the RayLine Max line lighting system, length: 3.36 m, wiring: 11 x 2.5 mm <sup>2</sup> , material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	062104 062113	4260745232869 4260745232951
	<b>mounting rail 5.04, 11-pole</b> single mounting rail for the RayLine Max line lighting system, length: 5.04 m, wiring: 11 x 2.5 mm <sup>2</sup> , material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	062105 062114	4260745232876 4260745232968
	<b>mounting rail 1.68, 14-pole</b> single mounting rail for the RayLine Max line lighting system, length: 1.68 m, wiring: 14 x 2.5 mm <sup>2</sup> , material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	062106 062115	4260745232883 4260745232975
	<b>mounting rail 3.36, 14-pole</b> single mounting rail for the RayLine Max line lighting system, length: 3.36 m, wiring: 14 x 2.5 mm <sup>2</sup> , material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	062107 062116	4260745232890 4260745232982
	<b>mounting rail 5.04, 14-pole</b> single mounting rail for the RayLine Max line lighting system, length: 5.04 m, wiring: 14 x 2.5 mm <sup>2</sup> , material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	062108 062117	4260745232906 4260745232999
	<b>rail connector</b> for connecting two mounting rails including a fastening point for steel cable suspension and two rotary knob screws, length: 280 mm, material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	699001 699002	4260669193284 4260669199019
	<b>mounting adapter</b> for flexible and freely selectable assembly of new or already installed rope suspensions on the RayLine mounting rails, material: steel, finish: hot-dip galvanized	699009	4260669192744
	<b>ceiling mounting adapter</b> for direct mounting of RayLine mounting rails on ceilings, flexible alignment, distance to surface: approx. 20 mm, material: steel, finish: hot-dip galvanized, delivered as a set with mounting adapter 699009	699515	4260745233750

tempLED	System components and accessory catalogue RayLine Max	art.-no.	GTIN / EAN
	<b>screw hook</b> , size M6 for direct mounting of RayLine mounting rails on newly installed or already existing chain suspensions, max. opening: 15 mm, with safety lock, material: steel, finish: nickel-plated, for use with 699001, 699002 or 699009	090129	4260745233767
	<b>rope suspension</b> , 1 meter rope length: 1.00 m, adjustable suspension length: from 0.10 to 0.90 m, material: steel, finish: natural, for use with 699001, 699002 or 699009	699005	4260669192799
	<b>rope suspension</b> , 3 meters rope length: 1.00 m, adjustable suspension length: from 0.10 to 2.90 m, material: steel, finish: natural, for use with 699001, 699002 or 699009	699006	4260669192805
	<b>rope suspension</b> , 5 meters rope length: 1.00 m, adjustable suspension length: from 0.10 to 4.90 m, material: steel, finish: natural, for use with 699001, 699002 or 699009	699007	4260669192812
	<b>initial feed</b> , 2 x 7-pole set for feeding in at the beginning of the RayLine Max - line lighting system, consisting of 2x 7-pole socket with screw connection and handle, delivery without supply cable	699513	4260745233613
	<b>end feed</b> , 2 x 7-pole set for feeding in at the end of the RayLine Max - line lighting system, consisting of 2x 7-pole plug with screw connection and handle, delivery without supply cable	699514	4260745233620
	<b>midpoint feed</b> , 4 x 7-pole set for feeding in the middle of the RayLine Max - line lighting system, with mounting rail and blind cover, length 280 mm, material: aluminium, 2x socket and 2x plug on top, with four plug connectors, delivery without supply cables <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	699501 699502	4260745233163 4260745233170
	<b>supply cable</b> , 7-pole, suitable for all feed systems 7-pole connection cable, ready-for-use, for tempLED RayLine line lighting systems, cable version: H07RN-F 7G2.5, cable colour: black, required quantities: 1x each for the start and end feeds and 2x each for the midpoint feeds <b>length: 1.00 meter</b> <b>length: 3.00 meters</b> <b>length: 5.00 meters</b>	699038 699039 699040	4260745233088 4260745233095 4260745233101
	<b>connection cable set</b> , 7-pole connection cable set between two line lighting systems, e.g. for bridging roof beams, ventilation shafts, cable stays or similar on-site installations, cable version: H07RN-F 7G2.5 with 7-pole plug ingoing and 7-pole socket outgoing, cable colour: black, cable length: 5.00 m <b>Note:</b> if more than 7 poles are required, the connection cable set is necessary twice.	095027	4260745233590
	<b>cable route 1.68</b> cable route for the RayLine Max line lighting system, length: 1.68 m, side panel height: 60 mm, material: aluminum	060076 060079	4260669195073 4260669193055
	<b>cable route 3.36</b> cable route for the RayLine Max line lighting system, length: 3.36 m, side panel height: 60 mm, material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	060077 060080	4260669195066 4260669193062
	<b>cable route 5.04</b> cable route for the RayLine Max line lighting system, length: 5.04 m, side panel height: 60 mm, material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	060078 060081	4260669195059 4260669193079

tempLED	Accessory catalogue RayLine Max	art.-no.	GTIN / EAN
	<b>universal adapter</b> for mounting e.g. hall lights on the RayLine Max line lighting system, maximum load capacity: 25 kg, material: steel, finish: hot-dip galvanized	699018	4260669199156
	<b>small universal adapter</b> for mounting e.g. information signs and traffic mirrors on the RayLine Max line lighting system, maximum load capacity: 3 kg, material: steel, finish: hot-dip galvanized	699025	4260669199446
	<b>universal power output, 5-pole</b> universal power supply output for the RayLine Max line lighting system, 5-pole socket, maximum load capacity: 230 VAC / 50-60 Hz - 10 A, length: 280 mm, material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	699509 699510	4260745233408 4260745233415
	<b>motion detector system MASTER</b> motion detector in PIR technology for the RayLine Max line lighting system, detection area: 360 degrees, detection range: approx. 36 meters tangential and approx. 14 meters radial, integrated daylight sensor, guidance light function, suitable for all RayLine Max line lights with integrated DALI dimming, maximum controllable number of DALI light modules: 30, can only be used at ambient temperatures of max. +50 degrees Celsius, length: 280 mm, material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	699516 699517	4260491848659 4260491848666
	<b>motion detector system SLAVE</b> motion detector in PIR technology for the RayLine Max line lighting system to expand the surveil- lance area, detection area: 360 degrees, detection range: approx. 36 meters tangential and approx. 14 meters radial, can only be used in combination with a motion detector system MASTER, can only be used at ambient temperatures of max. +50 degrees Celsius, length: 280 mm, material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	699518 699519	4260491848673 4260491848680
	<b>smart remote for motion detector system</b> IR remote control for user-friendly configuration of the tempLED RayLine Max motion detector system MASTER via common smartphones with Android or iOS operating system and Bluetooth connection., power supply via 2x AAA battery (not included)	932322	4260745234986
	<b>emergency light module</b> with automatic detection of failure and return of supply voltage, display of functional status, battery type: LiFePO4, running time either approx. 1 hour with an output power of approx. 6 watts or approx. 3 hours with an output power of approx. 3 watts, recharging time: approx. 24 hours, can only be used at ambient temperatures of max. +50 degrees Celsius, mounted in the luminaire ready for use	699014	4260669198982
	<b>emergency power module for centralized battery systems</b> operation module without monitoring and addressing for centralized battery systems, controlling via centralized monitoring system, maximum switching capacity: 500 watts, can only be used at ambient temperatures of max. +50 degrees Celsius, mounted in the luminaire ready for use	932271	4260491849953
	<b>Casambi control unit type 10</b> for integrating and controlling the RayLine Max line lighting system via the Casambi network: suitable for all RayLine Max line lights with integrated DALI dimming, maximum controllable number of DALI light modules: 10, can only be used at ambient temperatures of max. +50 degrees Celsius, length: 280 mm, material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	699503 699504	4260745233347 4260745233354
	<b>Casambi control unit type 60</b> for integrating and controlling the RayLine Max line lighting system via the Casambi network: suitable for all RayLine Max line lights with integrated DALI dimming, maximum controllable number of DALI light modules: 60, can only be used at ambient temperatures of max. +50 degrees Celsius, length: 280 mm, material: aluminum <b>finish: aluminum bare</b> <b>finish: aluminum anodized</b>	699505 699506	4260745233361 4260745233378