

TRAQ.

THE UNIVERSAL ROW LIGHTING SYSTEM.



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THREE MODULES. AN ALL-ROUND SOLUTION FOR YOU – **THE TRAQ SYSTEM.**

YOU DEFINE THE CONDITIONS IN THE SPACE. WE PROVIDE THE ANSWER. ALL GOOD THINGS COME IN THREES. WHICH IS WHY THIS ROW LIGHTING SYSTEM IS BASED ON THREE INNOVATIVE PILLARS TO MAKE YOUR LIFE EASIER. PERFECT LIGHTING, SIMPLE TO INSTALL.



1
Traq Linear
mounting rail

2
Traq
lighting technology

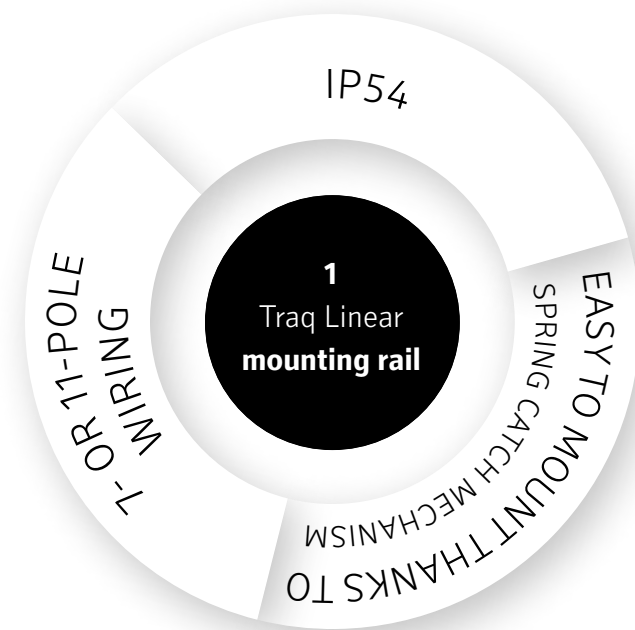
3
Traq Equip
accessories

A system that is uncompromisingly intuitive to handle, install and maintain. And it has a name: Traq.

cutting-edge LED technology
highly efficient
excellent lighting quality
application-specific beam angles
luminaires can be positioned flexibly
a system comprising electricity supply, control and emergency lighting
quick and easy to mount
can be extended endlessly via a range of add-on modules
fields of application: Industry, Shop & Retail, offices

MOUNTING RAIL SYSTEM – **TRAQ LINEAR.**

THIS **SPECIALLY DEVELOPED MOUNTING RAIL SYSTEM** BUILDS SPECIFICALLY ON ONE ISSUE – THE NEEDS OF THE USER.



Traq Linear is extremely simple to mount, ultra-flexible and efficient. Components can be positioned on the mounting rail quickly and easily. Traq Linear is the best solution for meeting your lighting requirements when you want to keep costs low and efficient lighting performance high.



THIS MOUNTING RAIL SYSTEM, IS AS TOUGH AS YOU CAN GET. IP54.

PROTECTING A ROW LIGHTING SYSTEM AGAINST WATER SPRAY AND DUST INGRESS IS NOT EASY. WE HAVE SUCCEEDED IN MEETING THE CHALLENGE USING SPECIALLY DEVELOPED SEALS. **THE ENTIRE SYSTEM IS SAFE AND READY FOR APPLICATIONS IN INDUSTRIAL PLANTS.**



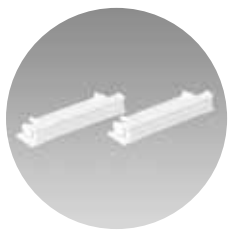
The protection rating of a luminaire depends on what requirements need to be met when the luminaire is in operation in a given application. The standards relevant for factories and industrial buildings are different from those for office applications. In order to guarantee the mounting rail system is safe and meets the standards for application in industrial facilities, Traq Linear can be supplied IP54-rated.

The battens and end caps are already tightly sealed. The feed points can be sealed quickly and easily using the grommet supplied. Grommets are also supplied for end-to-end mounting.

protected against dust ingress and water spray
the entire system is IP54-rated: mounting rails,
battens,diffusers, end caps and sensors



IP54 cable connection for
frontal cable entry



Seal for
blind cover

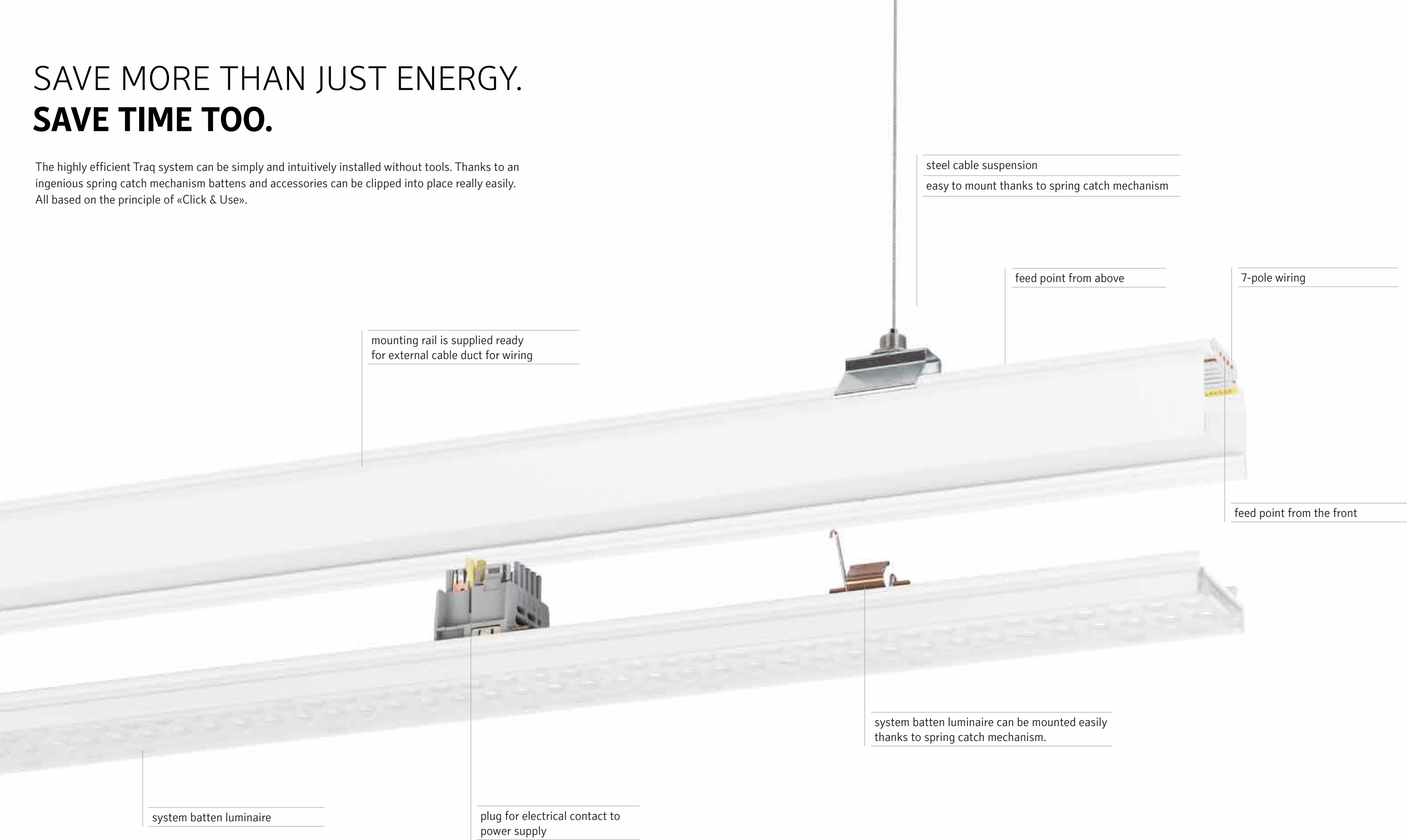


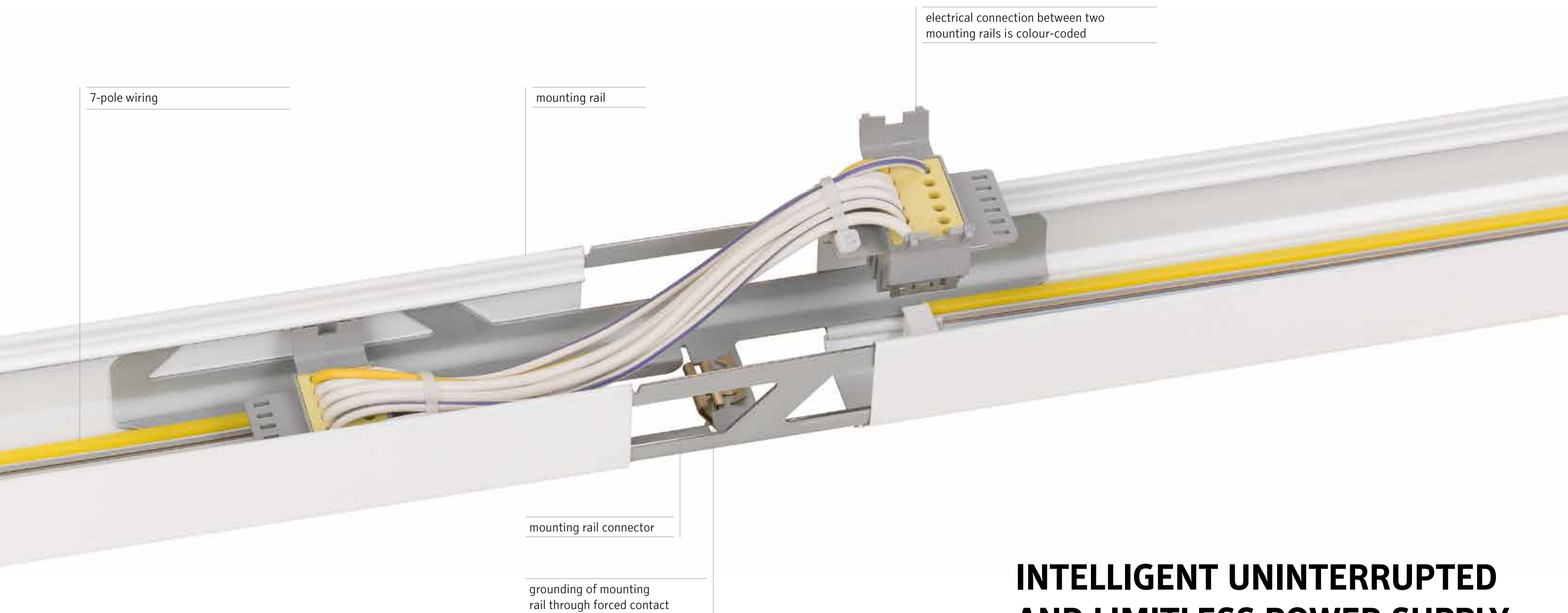
Seal for
mounting rail



SAVE MORE THAN JUST ENERGY. **SAVE TIME TOO.**

The highly efficient Traq system can be simply and intuitively installed without tools. Thanks to an ingenious spring catch mechanism batters and accessories can be clipped into place really easily. All based on the principle of «Click & Use».





INTELLIGENT UNINTERRUPTED AND LIMITLESS POWER SUPPLY.

However long your mounting rail system needs to be – the intelligent wiring concept coupled with simple continuous row mounting guarantees flawless operation, simple installation and the flexibility to design stretches of excellent lighting as long as you need them to be.

Lighting modules and accessories can be connected without tools. Electrical connectors are simply clipped into the profiles – the grounding contact is effected automatically. And uninterrupted power supply is guaranteed. It couldn't be easier.

a system that comprises electricity supply, control and emergency lighting

uninterrupted power supply

choice between 7-pole and 11-pole wiring

Traq Linear mounting rail



7-pole wiring
 $5 \times 2.5 \text{ mm}^2 + 2 \times 1.5 \text{ mm}^2$
 3 separate circuits
 2 control leads for DALI signal



11-pole wiring
 $5 \times 2.5 \text{ mm}^2 + 6 \times 1.5 \text{ mm}^2$
 3 separate circuits
 2 control leads for DALI signal
 2 independent emergency lighting circuits

The 11-pole Traq Linear enables you to respond flexibly to future requirements.



LIGHTING TECHNO- LOGY PLUS EFFICIENCY – **TRAQ.**

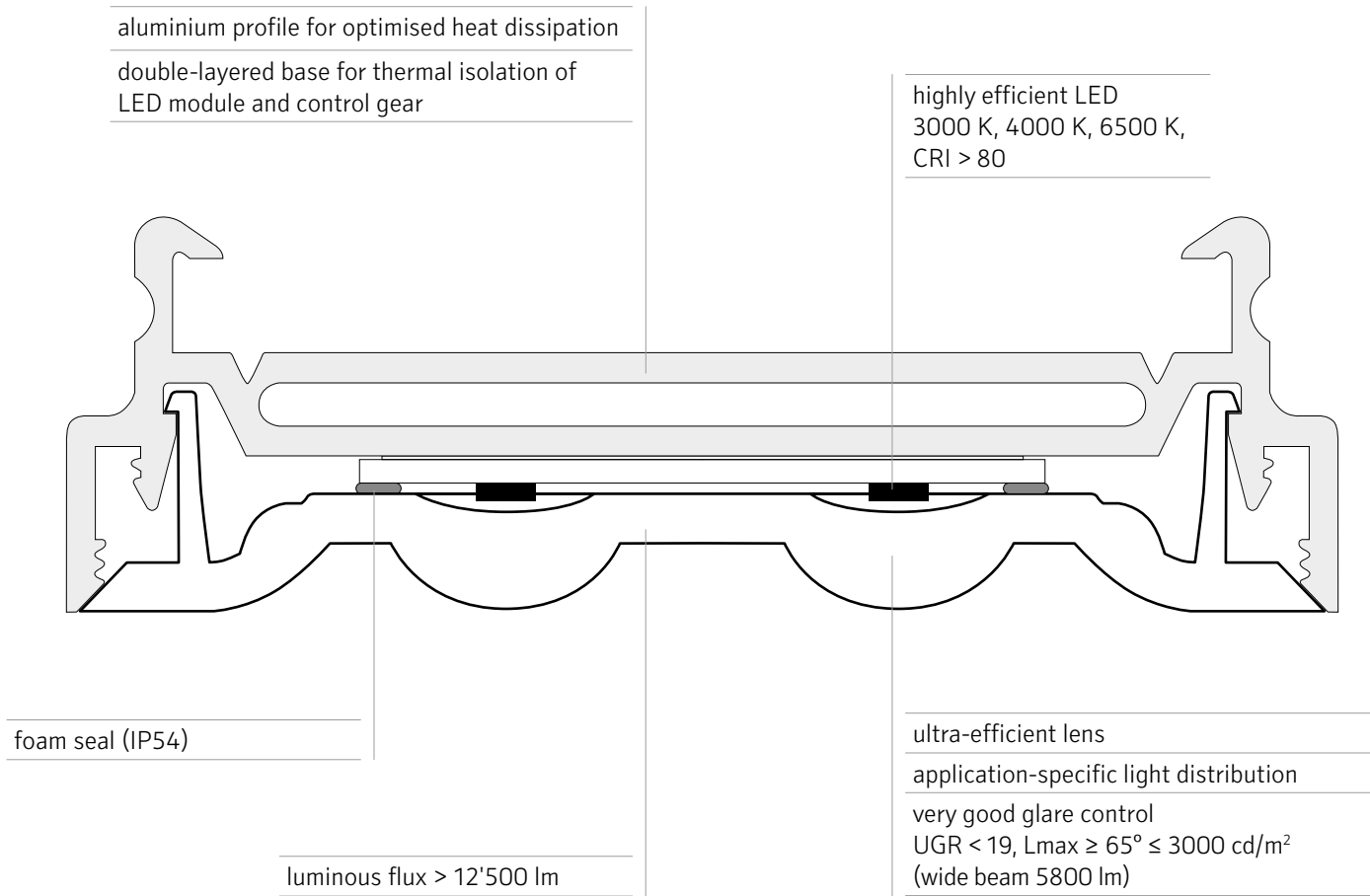
FACE THE FACTS: THE FUTURE HAS ALREADY BEGUN. THE TRAQ ROW LIGHTING SYSTEM IS EVIDENCE OF THAT. **IT PROVIDES EVERYTHING YOU WILL NEED IN FUTURE - WHATEVER THE SCENARIO.**





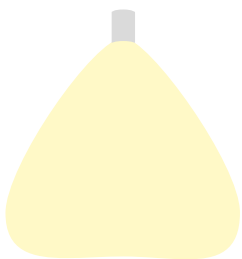
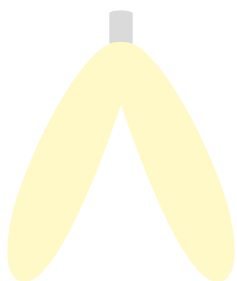




The system batten luminaire Traq is a further key element in the overall Traq row mounting system concept. Cutting-edge LED technology coupled with unique optics guarantee excellent quality lighting. Different beam angles respond to different user requirements.

OUR GREATEST SECRET IS PRACTICALLY INVISIBLE – **LED-OPTIMISING OPTICS.**

THE SPECIALLY DEVELOPED **LED LENS OPTICS DIRECT THE LIGHT** **EMITTED BY THE LIGHT SOURCE INTO THE SPACE.** WITH THE LEAST POSSIBLE LIGHT LOSS.



WIDE BEAM	DOUBLE ASYMMETRIC BEAM	ASYMMETRIC BEAM	CONCENTRATED BEAM
			
			
up to 8 metres (assembly and production facilities)	up to 3.5 metres (supermarkets and home depots)	up to 3.5 metres (supermarkets and home depots)	up to 12 metres (warehouses)

Product facilities, warehouses or retail spaces – four different LED Optimising Optics deliver the perfect light for the respective applications.

The wide-beam light distribution meets the highest standards for glare control, and complies with the specified standard values for office lighting: UGR < 19, Lmax ≥ 65° ≤ 3000 cd/m².

The (optional) LED grid conceals the tiny point sources and further enhances glare control along and across the space.

For spaces with mounting heights of up to 3.5 m, and where general lighting solutions are required, the Traq Case LED luminaire is the answer (see page 21).

Traq Office C-LED is your solution for offices (see page 22).

Traq Butterfly LED is another solution for supermarkets (see page 23).



TRAQ CASE LED ROW LIGHTING SYSTEM FOR ROOMS WITH LOW CEILINGS.

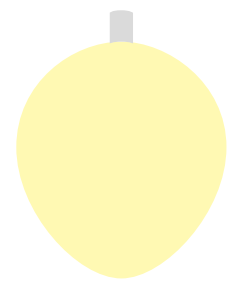
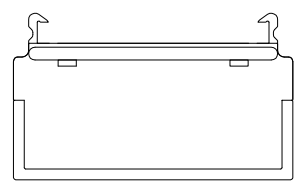
THE HIGH-QUALITY DIFFUSER MEETS THE DEMANDS FOR UNIFORM LIGHT DISTRIBUTION IN LOW-CEILINGED SPACES. OMNI-DIRECTIONALLIGHT DISTRIBUTION MAKES FOR PLEASANT ILLUMINATION ACROSS ALL WALL SURFACES.

Traq Case LED is ideal for mounting heights of up to 3.5 metres – the clear formal language of the rectangular diffuser makes the luminaire especially suitable for application in multi-storey car parks, corridors, aisles and walkways, or utility rooms.

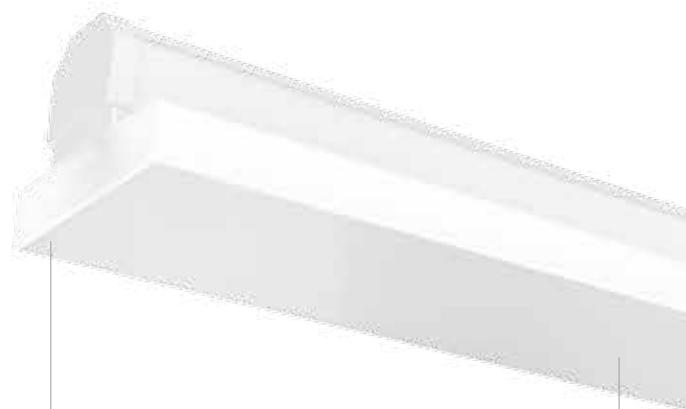


polycarbonate diffuser

construction height of system
batten luminaire incl. diffuser: 29 mm

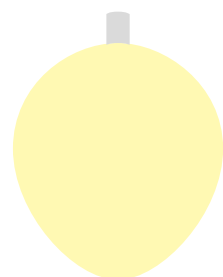
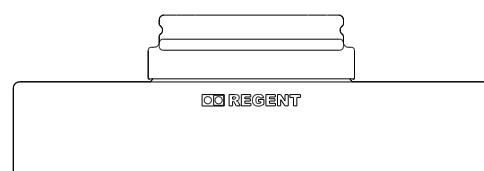


OMNI-DIRECTIONAL



LED optics suitable for application in offices,
micro-prismatic
 $UGR \leq 19$; $L_{max} \geq 65^\circ \leq 3000 \text{ cd/m}^2$

Suitable for application in office environ-
ments, featuring all the advantages of a
row mounting system



ALL-ROUND BEAM

TRAQ OFFICE C-LED ROW LIGHTING SYSTEM FOR OFFICES.

THE FLEXIBLE AND HIGHLY EFFICIENT
TRAQ ROW LIGHTING SYSTEM IS ALSO
VERY POPULAR IN OFFICE ENVIRON-
MENTS. THE TRAQ OFFICE C-LED LUMI-
NAIRE FEATURES A HIGH-GRADE
DIFFUSER MADE OF PMMA WITH INTE-
GRAL MICRO-PRISMATIC OPTICS FOR
PERFECT GLARE-FREE LIGHT AND UNI-
FORM LIGHT DISTRIBUTION. HIGH-
QUALITY LEDS AND INNOVATIVE OPTICS
GUARANTEE HIGH EFFICIENCY,
UNIFORM LIGHTING AND EXCELLENT
COLOUR RENDERING.

Traq Office incorporates specially developed optics and thus
delivers standard-compliant, first-class lighting for office
environments, laboratories and school facilities – without
compromising on any of its acknowledged strengths as a
luminaire for industrial applications.

TRAQ BUTTERFLY LED ROW LIGHTING SYSTEM FOR SHELVES.

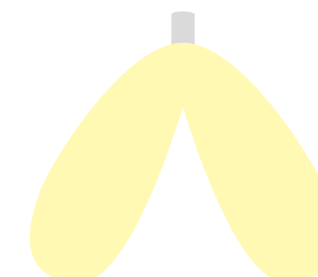
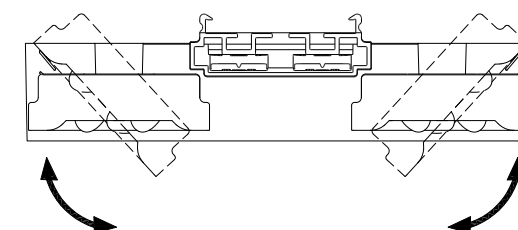
THESE BATTEN LUMINAIRES WERE
DESIGNED TO PROVIDE THE OPTIMUM
ILLUMINATION OF SHELVING SYSTEMS
IN SUPERMARKETS, THUS COMBINING
THE INSTALLATION AND COST BENEFITS
OF A ROW LIGHTING SYSTEM WITH THE
FLEXIBILITY OF TRACK-MOUNTED SPOT-
LIGHTS. TRAQ BUTTERFLY FEATURES
DOUBLE ASYMMETRIC LIGHT DISTRIBUTI-
ON: THE LENS OPTICS CAN BE ADJUSTED
INDEPENDENTLY TO ACHIEVE THE REQUI-
RED BEAM COVERAGE. IT IS THEREFORE
NO LONGER A PROBLEM IF THE ROW
LIGHTING SYSTEM IN THE SUPERMARKET
AISLE IS INSTALLED OFF-CENTRE.

Thanks to its efficient lens technology, it not only guarantees
the best possible lighting for shelves, but keeps the costs for
energy consumption and maintenance low.



Adjustable optics, can be
aligned as required

Highly efficient lens technology, Only one
luminaire required per 2.5 m of shelving



DOUBLE ASYMMETRIC BEAM



THERE IS A LOT OF TALK ABOUT IT.

WE ACTUALLY IMPLEMENT IT – HIGH EFFICIENCY.

EFFICIENCY COMPARISON	
Project	Industrial building
Dimensions	35 x 20 x 5 m
Reflection factor	0.7/0.5/0.2

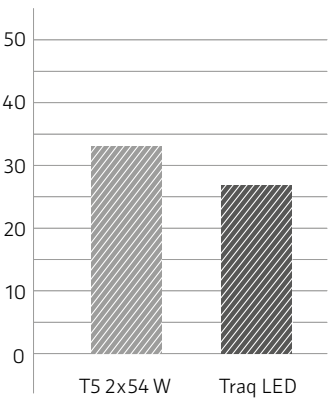
SYSTEM	T5 2 x 54 W	Traq LED
Optical system	Reflector	LED lens technology
Glare rating UGR	< 26.5	< 19.5
Luminous flux [lm]	7921	8300
Connected load per luminaire [W]	115	65
Luminous efficacy [lm/W]	69	128
Direct/indirect component	100 % direct	100 % direct
Total connected load [W]	3795	1755
Number of luminaires	33	27

20%
fewer
luminaires

RESULT: FEWER LED LUMINAIRES AT SUBSTANTIALLY REDUCED ENERGY CONSUMPTION		
Average illuminance Em [lux]	306	302
Uniformity Uo	> 0.6	> 0.6
Lighting pursuant to EN 12464-1	yes	yes
Connected load per surface [W/m²]	5.42	2.51
Connected load per surface for 100 lux [W/m²/100 lux]	1.77	0.83

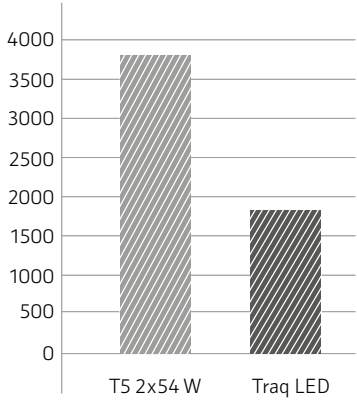
50%
less
energy

fewer luminaires – high lumen packages
uniformity Uo > 0.6



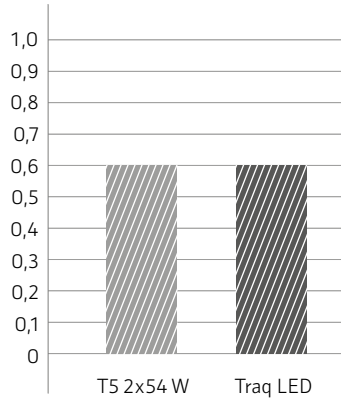
NUMBER OF LUMINAIRES

SAVING ON LUMINAIRES



TOTAL CONNECTED LOAD [W]

ENERGY SAVING

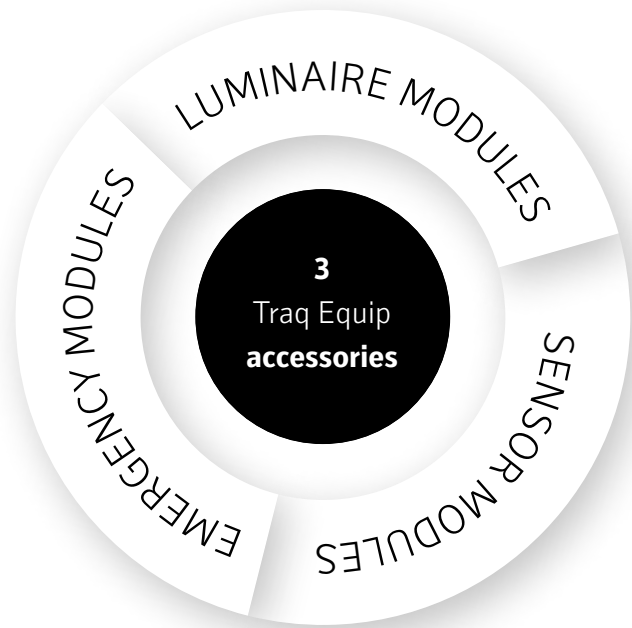


UNIFORMITY [Uo]



EXTENDIBLE ROW LIGHTING SYSTEM – **TRAQ EQUIP.**

OUR INTENTION IS TO MAKE,
INSTALLATION AND PLANNING
SIMPLE AND INTUITIVE. THE TRAQ
CONCEPT ENABLES JUST THAT.



INTEGRATE ADDITIONAL **LUMINAIRES**, **EMERGENCY MODULES AND SENSORS** INTO THE TRAQ SYSTEM WITHOUT TOOLS.

LUMINAIRES, EMERGENCY MODULES OR SENSORS CAN BE ADDED AS REQUIRED – **THEY ARE ELECTRONICALLY CONNECTED VIA PRE-INSTALLED PLUG CONTACTS.** YOU CAN ADD TO THE TRAQ SYSTEM, USING REGENT FIXTURES, SUCH AS THE MATRIX LED SPOTLIGHT OR THE ARNY LED HIGH-BAY LUMINAIRE, FOR EXAMPLE.



LUMINAIRE MODULES

Spotlights such as the Matrix can be easily mounted on the mounting rail using integrable Global track.



LUMINAIRE MODULES

If you are looking for a truly powerful lighting solution, the Arny high-bay luminaire marks the end of your quest. A further unique feature: Arny is IP54-rated when mounted on tried and tested Traq track.



EMERGENCY MODULES

To save yourself the cost and effort of having emergency luminaires installed on doors or walls, you can simply integrate the emergency component into your Traq Linear system with very little effort. Meeting safety precautions where it is important.



SENSOR MODULES

Sensor modules can also be installed in the Traq Linear row lighting system as required. The simplest way for you to guarantee that light is provided when it is really needed.

DESIGNED FOR THE MOST IMPORTANT FIELDS OF APPLICATION – TRAQ.



SUPERMARKETS

light distribution: double asymmetric, asymmetric

mounting height: ideal up to 3.5 m

uniform illumination of vertical surfaces

- thanks to Traq LED precision optics

excellent glare control along and across the space, LED light sources concealed

- through LED grid

resource and energy efficient

- up to 139 lm/W
- up to 1.93 W/m²/100 lx
- lifespan of over 50,000 h



PRODUCTION FACILITIES

light distribution: wide beam

mounting height: ideal up to 8 m

can be used flexibly

- IP54-rated and for ambient temperatures of up to +35°C

enhanced glare control along and across the space

- through LED grid

excellent lighting quality

- very good glare control UGR < 19, L_{max} ≥ 65° ≤ 3000 cd/m² up to LL = 5800 lm (L = 1481 mm)
- CRI > 80

resource and energy efficient

- up to 143 lm/W
- up to 0.87 W/m²/100 lx
- lifespan of over 50,000 h



WAREHOUSES

light distribution: concentrated beam

mounting height: ideal from 6 to 12 m

can be used flexibly

- IP54-rated and for ambient temperatures of up to +35°C

uniform illumination

U₀ = 0.6

resource and energy efficient

- up to 139 lm/W
- up to 2.2 W/m²
- lifespan of over 50,000 h



MULTI-STOREY CAR PARKS

light distribution: omni-directional (Traq Case LED)

mounting height: ideal up to 3.5 m

can be used flexibly

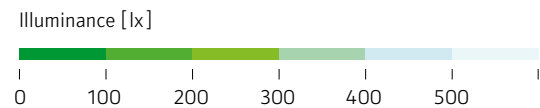
- IP54-rated and for ambient temperatures of up to +35°C
- impact-resistant PC diffuser

uniform illumination

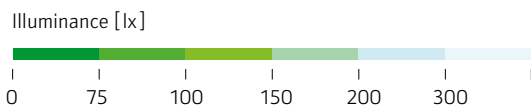
U₀ = 0.45

resource and energy efficient

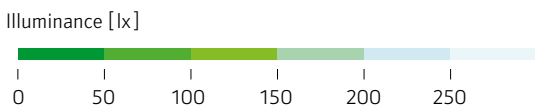
- up to 114 lm/W
- up to 0.85 W/m²
- lifespan of over 50,000 h



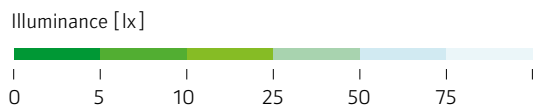
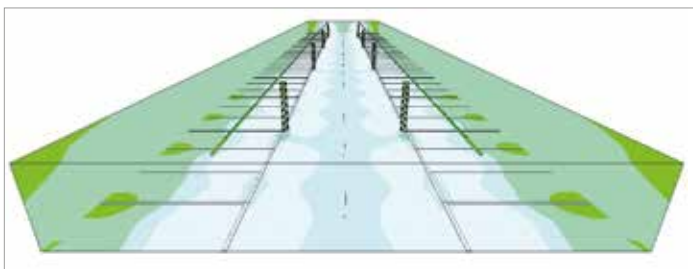
Example supermarkets: mounting height 2.8 m, width of aisle 1.8 m, average illuminance on shelves (vertical) 470 lx, uniformity U₀ 0.52, average horizontal illuminance 505 lx



Example production facilities: mounting height 6 m, 35 x 20 x 6 m (L x W x H), mounted on ceiling, average illuminance 312 lx, total connected load per surface: 2.7 W/m² (0.87 W/m²/100 lx), uniformity U₀ 0.72

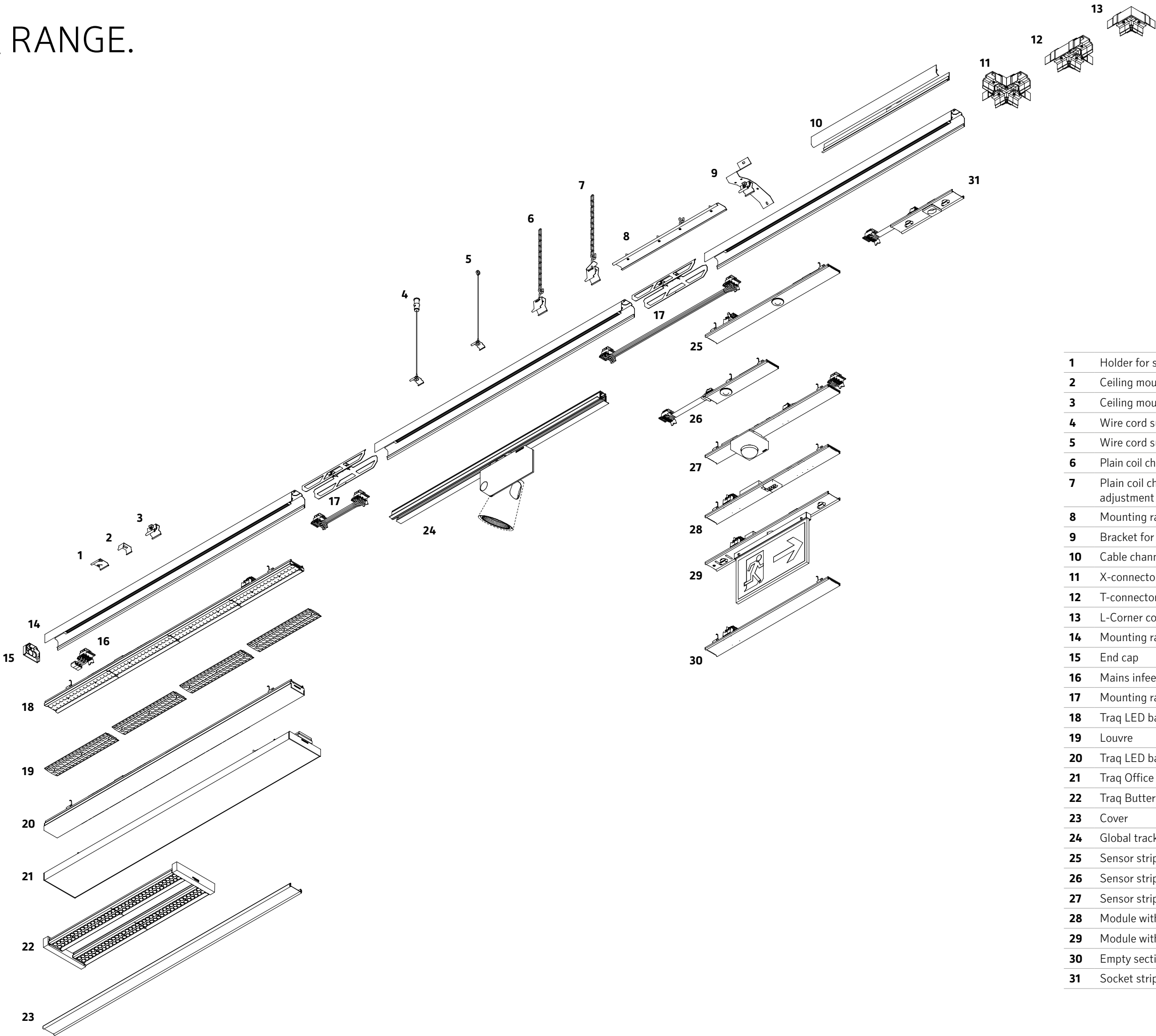


Example warehouses: mounting height 10 m, 15 x 30 x 10 m (L x W x H), mounted on ceiling, average illuminance 201 lx, total connected load per surface: 2.2 W/m², uniformity U₀ 0.6











Example multi-storey car park: mounting height 2.6 m, 82,5 x 16,5 x 2,6 m (L x W x H), mounted on ceiling, average illuminance 82 lx, total connected load per surface: 0.85 W/m², uniformity U₀ 0.45

TRAQ RANGE.









1	Holder for system ceilings
2	Ceiling mount, flat
3	Ceiling mount, for use with safety screw
4	Wire cord suspension with ceiling mount
5	Wire cord suspension with loop
6	Plain coil chain with element for chain mounting, with setting/rating nut
7	Plain coil chain with element for chain mounting, with quick adjustment mechanism
8	Mounting rail connector for sloped mounting or stabilization
9	Bracket for mounting on sloped ceilings
10	Cable channel
11	X-connector
12	T-connector
13	L-Corner connector
14	Mounting rail
15	End cap
16	Mains infeed
17	Mounting rail connector, mechanical and electrical
18	Traq LED batten luminaire with lens module
19	Louvre
20	Traq LED batten luminaire with diffuser
21	Traq Office C-LED batten luminaire
22	Traq Butterfly LED shelf luminaire
23	Cover
24	Global track for spotlights
25	Sensor strip up to 5 m, DALI (Slave, Master, Repeater)
26	Sensor strip up to 5 m, ON/OFF
27	Sensor strip up to 10 m, DALI (Slave, Master); up to 12 m, ON/OFF
28	Module with emergency luminaire
29	Module with escape sign luminaire
30	Empty section of profile for mounting further elements
31	Socket strip

MOUNTING RAILS

				
				
	for row lighting systems	for row lighting systems	complete kit for single mounting with 2 end caps and 1 mains infeed	with integral Global track
Electrical wiring	non-electrified	7-pole, 11-pole	7-pole, 11-pole	7-pole, 11-pole
Feed point	at the end of the mounting rail from above or on the side	at the end of the mounting rail from above or on the side	from above	at the end of the mounting rail from above or on the side
Lengths*	m1500 single length double length triple length	m1200 and m1500 single length double length triple length	m1200 and m1500 single length	m1500 single length double length triple length
Colours	white (similar to RAL 9016) or silver (similar to RAL 9006)	white (similar to RAL 9016) or silver (similar to RAL 9006)	white (similar to RAL 9016)	white (similar to RAL 9016) or silver (similar to RAL 9006)

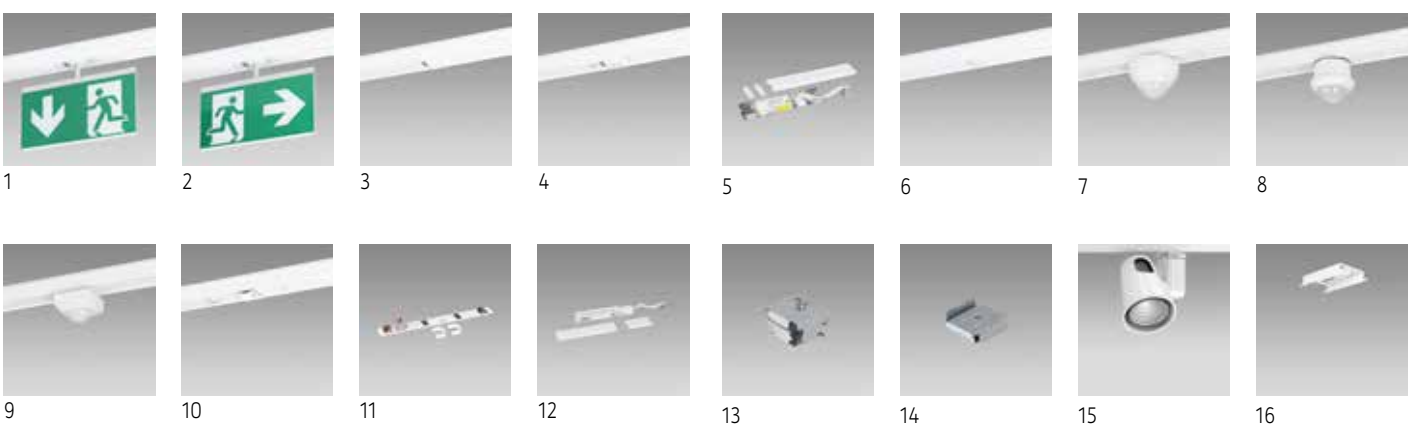
m1200 single length: 1186 mm, double length: 2372 mm, triple length: 3558 mm/ **m1500** single length: 1481 mm, double length: 2962 mm, triple length: 4443 mm
*lengths refer to module sizes

BATTEN LUMINAIRES

				
	Traq LED	Traq Case LED	Traq Office C-LED	Traq Butterfly LED
Lengths*	m600 / m1200 / m1500	m1200 / m1500	m1200 / m1500	640 mm
Beam angle characteristics	wide beam, double asymmetric, asymmetric, concentrated beam	omni-directional	omni-directional	double asymmetric beam
System power	11 – 92 W	23 – 51 W	32 – 41 W	52 W
Luminous flux of luminaire (min. - max.)	1580 – 12500 lm	2500 – 5100 lm	3900 – 5200 lm	6400 – 6700 lm
Colour temperature	3000 K, 4000 K, 6500 K	3000 K, 4000 K, 6500 K	3000 K, 4000 K	3000 K, 4000 K
Colours	white (similar to RAL 9016) or silver (similar to RAL 9006)	white (similar to RAL 9016) or silver (similar to RAL 9006)	white (similar to RAL 9016)	white (similar to RAL 9016) or silver (similar to RAL 9006)
Light control	ON/OFF, DALI	ON/OFF, DALI	ON/OFF, DALI	DALI
Emergency lighting with a single battery (only for 11-pole mounting rail)	1h/3h für on/off	1h/3h für on/off	1h für on/off	–
Material	LED lens optics made of polymethyl methacrylate (PMMA)	Diffuser made of polycarbonate (PC)	Diffuser made of polymethyl methacrylate (PMMA)	LED lens optics made of polymethyl methacrylate (PMMA)
Mounting type	Mounting on ceilings Cable or catenary suspension Mounting on walls	Mounting on ceilings Cable or catenary suspension Mounting on walls	Mounting on ceilings Cable or catenary suspension	Mounting on ceilings Cable or catenary suspension
Louvre kit				
	for m600 / m1200 / m1500			

*lengths refer to module sizes

MODULE



Safety	
1	Escape sign luminaire module, arrow down, for single battery or for central battery (300 mm)
2	Escape sign luminaire module, arrow pointing right/left, for single battery or for central battery (300 mm)
3	Emergency luminaire module, for anti-panic lighting, for single battery or for central battery (590 mm)
4	Emergency luminaire module, for escape route lighting, for single battery or for central battery (590 mm)

Sensor strip	
5	HF technology, up to 4 m ceiling height, IP54, ON/OFF (295 mm)
6	PIR, up to 5 m ceiling height, IP54, ON/OFF (295 mm)*
6	PIR, up to 5 m ceiling height, IP54, DALI (295 mm)*
6	PIR, up to 5 m ceiling height, IP54, DALI with Repeater (590 mm)*
6	PIR, up to 5 m ceiling height, IP54, DALI Slave (295 mm)
9	PIR, up to 12 m ceiling height, IP54, ON/OFF (590 mm)
7	PIR, up to 10 m ceiling height, DALI (295 mm)*
8	PIR, up to 10 m ceiling height, DALI Slave (295 mm)
*Remote control to be ordered separately	

Socket strip	
10	Module for DE/AT, for Schuko plugs (295 mm)
10	Modul per CH, type 23 (295 mm)
10	Modul per FR (295 mm)

Empty section	
11	Empty section of profile for mounting further elements (590 mm), . max. 2,5 kg

Conductor track	
12	for integration into the Traq support profile, for spotlight version ON/OFF (590 / 1186 / 1480 mm)*
12	for integration into the Traq support profile, for spotlight version DALI (590 / 1186 / 1480 mm)*

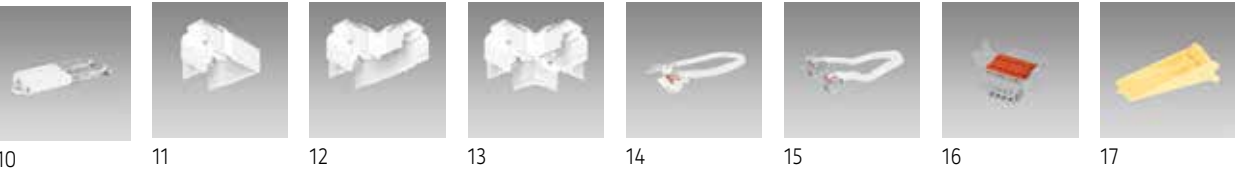
Retainer	
13	Retainer for mechanical mounting of Splash
14	Luminaire retainer for mechanical mounting of other luminaires (permissible load max. 10 kg)

Track spotlight Matrix for mounting on Traq	
15	Matrix LED for mounting directly on the suuport profile (2700 / 3100 / 4500 lm)

Mounting set for high-bay luminaire ARNY on Traq	
16	Mounting set for Arny 15'000 lm or 30'000 lm

All visible spare parts are (with exceptions) available in white and silver

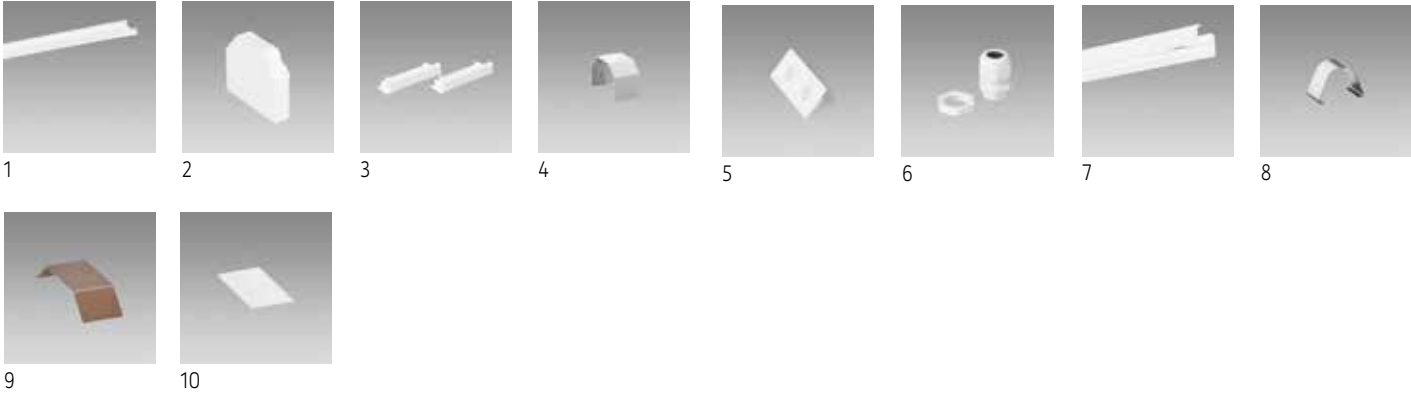
ACCESSORIES FOR MOUNTING RAIL



Mounting rail connector		Connecting node	
1	inside, mechanical, for non-electrified mounting rail	8	Joint connector universal, diameter 118 mm, mechanical
2	inside, mechanical and electrical, short*	9	Coupler for joint connector single, 1 end with wires, 1 end with plug, mechanical and electrical*
3	inside, mechanical and electrical, long*	10	Coupler for joint connector double, both ends with plug, mechanical and electrical*
4	outside, for sloped mounting or stabilization	11	L-corner connector, mechanical
Mains infeed		12	T-connector, mechanical
5	rigid for wires*	13	X-connector, mechanical
6	flexible for stranded wire*	14	Mains wiring with 1 plug for L-, T-, X-connector, electrical*
Prevailing clamp		15	Mains wiring with 2 plugs for L-, T-, X-connector, electrical*
7	for mounting rail with Traq LED system batten luminaire	16	Connecting plug for joint connector for L-, T-, X-connector, electrical*
7	for mounting rail with blanking plate Traq	Mounting tool	
		17	for mains infeed and electrical mounting rail connector

*each electrical element available for 7-pole or 11-pole wiring
All visible spare parts are (with exceptions) available in white and silver

COVERS, END CAPS AND GASKETS / CABLE CHANNEL AND CABLE SUPPORT



1	Covers for IP20 (295, 1186, 1481, 4443 mm)	7	Cable channel incl. 10 mounting clips
1	Covers and 2 gaskets for IP54 (295, 1186, 1481 mm) .	8	Cable support set, external, spring steel (10 pcs)
2	End caps	9	Cable support set, internal, spring steel (10 pcs)
3	Gasket for blind cover, 2 pc. Set	10	Cable support set, internal, plastic (10 pcs)
4	Gasket IP54 for support profile (mounting on butt joint between 2 support profiles)	All visible spare parts are (with exceptions) available in white and silver	
5	Gasket for for cable entry		
6	IP54 cable connection for frontal cable entry		

BRACKETS AND SUSPENSION COMPONENTS



Mounting on ceilings		Pendant tube suspension	
1	Ceiling bracket, flat, h = 10 mm	11	Mount for tube suspension
2	Ceiling bracket, for use with safety screws	12	Pendant tube with canopy (500 mm / 1000 mm)
3	Holder for system ceilings, angle 0° or 90°	Mounting on walls	
Cable or catenary suspension		13	Bracket for mounting on sloped surfaces 30°, 45°, 60°
4	Catenary suspension with quick adjustment mechanism	14	Bracket for catenary suspension on sloping surfaces (chain not included)
5	Catenary suspension with adjusting nut		
6	Chain (1000 / 1500 / 3000 / 5000 mm)		
7	Suspension hook		
8	Steel cable suspension with eyelet (1500 / 3000 / 5000 mm)		
All visible spare parts are (with exceptions) available in white and silver			

Contact

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