TOP 100
Top-Innovator 2021

FLASHAAR



NP Navigator-3

DATENBLATT
DATASHEET

FLASHAAR® – Wir machen Licht.

MADE IN **GERMANY**

FLASHAAR® – We create light.

NauticProfil® Navigator-3

MID



1522 lm/m* | 72 m per feed-in | CRI > 80 | 2200 K - 6500 K

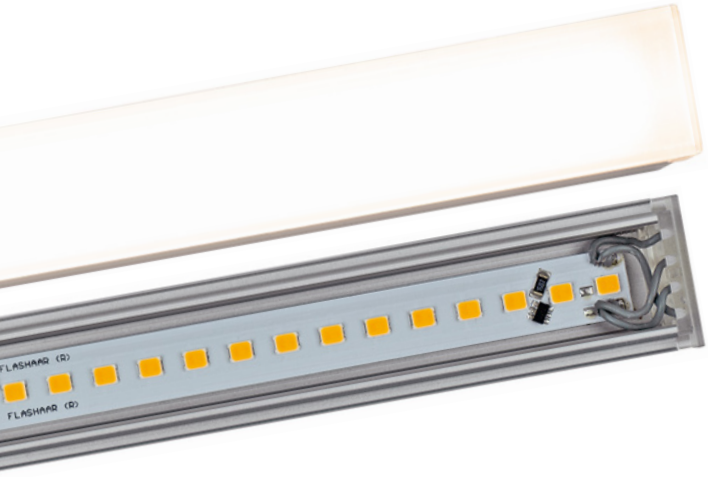
Erste Wahl für universelle und wirtschaftliche Beleuchtungskonzepte

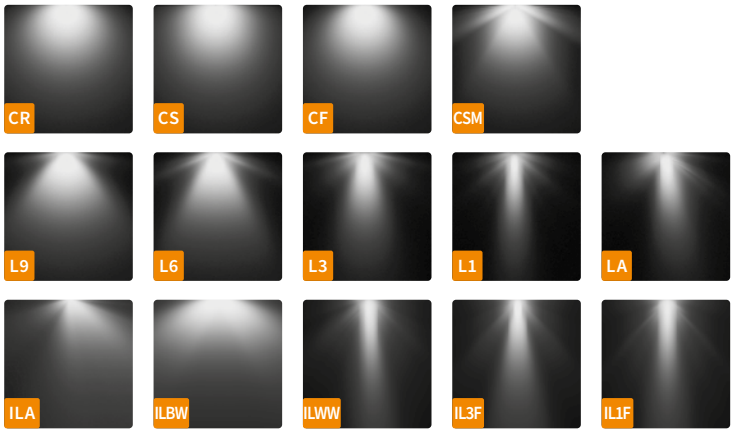
First choice for universal and economical lighting concepts

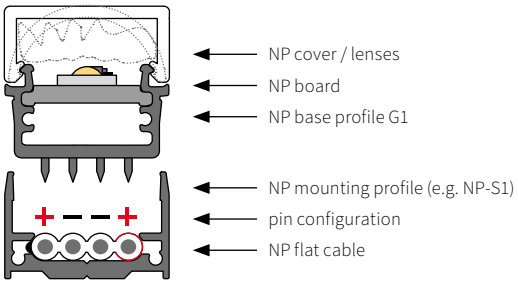
Die LED-Linie **NauticProfil® Navigator-3** verbindet eine hohe Effizienz von 164 lm/W mit einer langen Lebensdauer. Damit eignet sie sich besonders für wirtschaftliche und wartungsarme Allgemeinbeleuchtungen.
Mit rund 1.600 lm/m sorgt sie für eine zuverlässige und gleichmäßige Ausleuchtung und bietet vielseitige Einsatzmöglichkeiten – in Wohn- und Geschäftsbereichen ebenso wie im öffentlichen Raum. Ob für funktionale Beleuchtung oder anspruchsvolle Lichtkonzepte: Das NauticProfil® Navigator-3 lässt sich flexibel in unterschiedlichste Anwendungen integrieren und ermöglicht langlebige Lichtlösungen mit geringem Wartungsaufwand.
Für unterschiedliche Anforderungen und Lichtstimmungen stehen fünf Farbtemperaturen zur Auswahl.

The **NauticProfil® Navigator-3** LED range combines high efficiency of 164 lm/W with a long service life. This makes it particularly suitable for cost-effective and low-maintenance general lighting. With around 1,600 lm/m, it ensures reliable and uniform illumination and offers a wide range of applications – in residential and commercial areas as well as in public spaces.
Whether for functional lighting or sophisticated lighting concepts, the NauticProfil® Navigator-3 can be flexibly integrated into a wide variety of applications and enables long-lasting lighting solutions with minimal maintenance.
Five colour temperatures are available to suit different requirements and lighting atmospheres.

effzientes Licht für allgemeine Innen- und Außenbeleuchtung
effcient light for general indoor and outdoor lighting







48V DC | g/m 300 | -20 +45 | IP40 — characteristics

PWM dimmable — dimming

IP65 | IP65 PREMIUM | IK10 | RAL optional — optional

mounting

CE

* Alle Angaben zum Lumenstrom beziehen sich auf das Leuchtmittel (gemessen bei 2700K).
In Kombination mit Abdeckungen / Linsen kommt es zu materialbedingtem Lichtverlust.
* All information about the luminous flux refers to the light source (measured at 2700K). In combination with covers / lenses it comes to material-related light loss.

Artikelnummer
item number

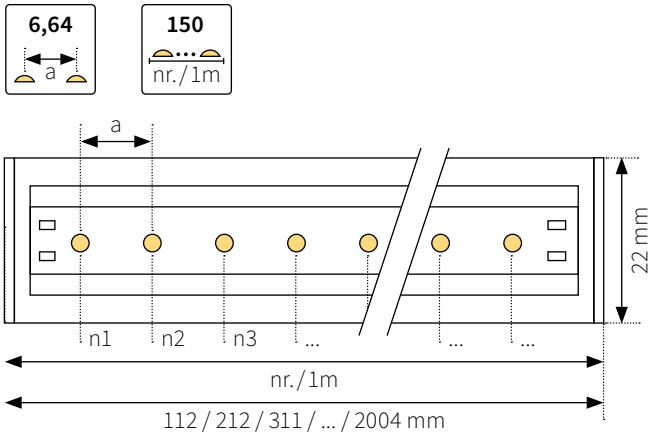
NP/L1C/G1/14C / L1C/G1/ 112 / G1/ ALA / 9 27 / CR W

Technische Daten
technical data

nominal voltage:	**48 V DC** (Range: 44,25 to 49,5 V DC)
nominal wattage:	**9,6 W/m**
photometric code:	8XX/339; **CRI > 80**
luminous efficacy [typ.]:	**164 lm/W**
LED service life:	L90/B10 > 100 000 h
dimmable:	pulse width modulation (PWM)
length dividing matrix:	100 mm
LED pitch:	6,64 mm, 150 LEDs/m
max. length per feed-in:	L(max) at 49,5 V DC = 72 m (775 W)*

***Achtung!** Die Leistung [W] gesamt im NP-System ist gleichmäßig auf die Kanäle 1+2 aufzuteilen.
***Attention!** The total power [W] in the NP system is to be divided equally between channels 1+2.

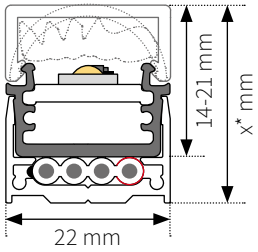
Alle optischen und elektrischen Daten haben eine Toleranz von ±10 %.
All optical and electrical data have a tolerance of ±10 %.



Basisprofil
base profile

Das Basisprofil G1 ist mit allen NP-Montageprofilen von FLASHAAR® per Plug&Play kombinierbar. Es ist in den Farben Aluminium (ALA) und Schwarz (BA) eloxiert erhältlich.

The base profile G1 can be combined with all NP mounting profiles from FLASHAAR® by Plug&Play. It is available in the colours aluminium (ALA) and black (BA) anodised.



G1/ALA (Standard)
G1/BA

*Leuchtenhöhe abhängig vom Montageprofil (21 - 168 mm)
*Luminaire height depending on mounting profile (21 - 168 mm)

Farbtemperatur und Lumenstrom
colour temperature and luminous flux

Farbtemperatur colour temperature	WW 2200 K**	**WW 2700 K**	**WW 3000 K**	**NW 4000 K**	DL 6500 K**
CRI	> 80	> 80	> 80	> 80	> 80
Lumenstrom typ.* luminous flux typ.*	1226 lm/m	1522 lm/m	1582 lm/m	1686 lm/m	1686 lm/m
	822	**827**	**830**	**840**	**865**

* Alle Angaben zum Lumenstrom beziehen sich auf das Leuchtmittel. In Kombination mit Abdeckungen/Linsen kommt es zu materialbedingtem Lichtverlust.
All luminous flux values refer to the light source. When used with covers/lenses, material-related light losses occur.
**Farbtemperatur auf Anfrage.
Colour temperature on request.

Übersicht Standardlängen & Wattagen
overview standard lengths & wattages

IP40, IP65, IP65 Premium		
product-nr.	**L (mm)***	**Watt****
NP/L1C/G1/14C/L1C/G1/0112/###/###	112	0,96
NP/L1C/G1/14C/L1C/G1/0212/###/###	212	1,92
NP/L1C/G1/14C/L1C/G1/0311/###/###	311	2,88
NP/L1C/G1/14C/L1C/G1/0411/###/###	411	3,84
NP/L1C/G1/14C/L1C/G1/0510/###/###	510	4,80
NP/L1C/G1/14C/L1C/G1/0610/###/###	610	5,76
NP/L1C/G1/14C/L1C/G1/0710/###/###	710	6,72
NP/L1C/G1/14C/L1C/G1/0809/###/###	809	7,68
NP/L1C/G1/14C/L1C/G1/0909/###/###	909	8,64
NP/L1C/G1/14C/L1C/G1/1008/###/###	1008	9,60

IP40		
product-nr.	**L (mm)***	**Watt****
NP/L1C/G1/14C/L1C/G1/1108/###/###	1108	10,56
NP/L1C/G1/14C/L1C/G1/1208/###/###	1208	11,52
NP/L1C/G1/14C/L1C/G1/1307/###/###	1307	12,48
NP/L1C/G1/14C/L1C/G1/1407/###/###	1407	13,44
NP/L1C/G1/14C/L1C/G1/1506/###/###	1506	14,40
NP/L1C/G1/14C/L1C/G1/1606/###/###	1606	15,36
NP/L1C/G1/14C/L1C/G1/1706/###/###	1706	16,32
NP/L1C/G1/14C/L1C/G1/1805/###/###	1805	17,28
NP/L1C/G1/14C/L1C/G1/1905/###/###	1905	18,24
NP/L1C/G1/14C/L1C/G1/2004/###/###	2004	19,20

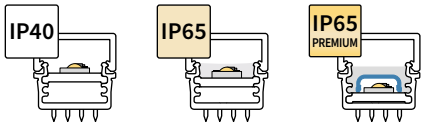
Übersicht der möglichen Sonderlängen & Wattagen (nach Rücksprache)
overview of possible special lengths & wattages (after consultation)

IP40, IP65, IP65 Premium		
product-nr.	**L (mm)***	**Watt****
NP/L1C/G1/14C/SL1C/G1/0132/###/###	132	1,92
NP/L1C/G1/14C/SL1C/G1/0152/###/###	152	1,92
NP/L1C/G1/14C/SL1C/G1/0172/###/###	172	1,92
NP/L1C/G1/14C/SL1C/G1/0192/###/###	192	2,88
NP/L1C/G1/14C/SL1C/G1/0232/###/###	232	2,88
NP/L1C/G1/14C/SL1C/G1/0252/###/###	252	2,88
NP/L1C/G1/14C/SL1C/G1/0271/###/###	271	2,88
NP/L1C/G1/14C/SL1C/G1/0291/###/###	291	3,84
NP/L1C/G1/14C/SL1C/G1/0331/###/###	331	3,84
NP/L1C/G1/14C/SL1C/G1/0351/###/###	351	3,84
NP/L1C/G1/14C/SL1C/G1/0371/###/###	371	3,84
NP/L1C/G1/14C/SL1C/G1/0391/###/###	391	4,80
NP/L1C/G1/14C/SL1C/G1/0431/###/###	431	4,80
NP/L1C/G1/14C/SL1C/G1/0451/###/###	451	4,80
NP/L1C/G1/14C/SL1C/G1/0471/###/###	471	4,80
NP/L1C/G1/14C/SL1C/G1/0491/###/###	491	5,76
NP/L1C/G1/14C/SL1C/G1/0530/###/###	530	5,76
NP/L1C/G1/14C/SL1C/G1/0550/###/###	550	5,76
NP/L1C/G1/14C/SL1C/G1/0570/###/###	570	5,76
NP/L1C/G1/14C/SL1C/G1/0590/###/###	590	6,72
NP/L1C/G1/14C/SL1C/G1/0630/###/###	630	6,72
NP/L1C/G1/14C/SL1C/G1/0650/###/###	650	6,72
NP/L1C/G1/14C/SL1C/G1/0670/###/###	670	6,72
NP/L1C/G1/14C/SL1C/G1/0690/###/###	690	7,68
NP/L1C/G1/14C/SL1C/G1/0730/###/###	730	7,68
NP/L1C/G1/14C/SL1C/G1/0750/###/###	750	7,68
NP/L1C/G1/14C/SL1C/G1/0769/###/###	769	7,68
NP/L1C/G1/14C/SL1C/G1/0789/###/###	789	8,64
NP/L1C/G1/14C/SL1C/G1/0829/###/###	829	8,64
NP/L1C/G1/14C/SL1C/G1/0849/###/###	849	8,64
NP/L1C/G1/14C/SL1C/G1/0869/###/###	869	8,64
NP/L1C/G1/14C/SL1C/G1/0889/###/###	889	9,60
NP/L1C/G1/14C/SL1C/G1/0929/###/###	929	9,60
NP/L1C/G1/14C/SL1C/G1/0949/###/###	949	9,60
NP/L1C/G1/14C/SL1C/G1/0969/###/###	969	9,60
NP/L1C/G1/14C/SL1C/G1/0989/###/###	989	10,56

IP40		
product-nr.	**L (mm)***	**Watt****
NP/L1C/G1/14C/SL1C/G1/1028/###/###	1028	10,56
NP/L1C/G1/14C/SL1C/G1/1048/###/###	1048	10,56
NP/L1C/G1/14C/SL1C/G1/1068/###/###	1068	10,56
NP/L1C/G1/14C/SL1C/G1/1088/###/###	1088	11,52
NP/L1C/G1/14C/SL1C/G1/1128/###/###	1128	11,52
NP/L1C/G1/14C/SL1C/G1/1148/###/###	1148	11,52
NP/L1C/G1/14C/SL1C/G1/1168/###/###	1168	11,52
NP/L1C/G1/14C/SL1C/G1/1188/###/###	1188	12,48
NP/L1C/G1/14C/SL1C/G1/1228/###/###	1228	12,48
NP/L1C/G1/14C/SL1C/G1/1248/###/###	1248	12,48
NP/L1C/G1/14C/SL1C/G1/1267/###/###	1267	12,48
NP/L1C/G1/14C/SL1C/G1/1287/###/###	1287	13,44
NP/L1C/G1/14C/SL1C/G1/1327/###/###	1327	13,44
NP/L1C/G1/14C/SL1C/G1/1347/###/###	1347	13,44
NP/L1C/G1/14C/SL1C/G1/1367/###/###	1367	13,44
NP/L1C/G1/14C/SL1C/G1/1387/###/###	1387	14,40
NP/L1C/G1/14C/SL1C/G1/1427/###/###	1427	14,40
NP/L1C/G1/14C/SL1C/G1/1447/###/###	1447	14,40
NP/L1C/G1/14C/SL1C/G1/1467/###/###	1467	14,40
NP/L1C/G1/14C/SL1C/G1/1487/###/###	1487	15,36
NP/L1C/G1/14C/SL1C/G1/1526/###/###	1526	15,36
NP/L1C/G1/14C/SL1C/G1/1546/###/###	1546	15,36
NP/L1C/G1/14C/SL1C/G1/1566/###/###	1566	15,36
NP/L1C/G1/14C/SL1C/G1/1586/###/###	1586	16,32
NP/L1C/G1/14C/SL1C/G1/1626/###/###	1626	16,32
NP/L1C/G1/14C/SL1C/G1/1646/###/###	1646	16,32
NP/L1C/G1/14C/SL1C/G1/1666/###/###	1666	16,32
NP/L1C/G1/14C/SL1C/G1/1686/###/###	1686	17,28
NP/L1C/G1/14C/SL1C/G1/1726/###/###	1726	17,28
NP/L1C/G1/14C/SL1C/G1/1746/###/###	1746	17,28
NP/L1C/G1/14C/SL1C/G1/1765/###/###	1765	17,28
NP/L1C/G1/14C/SL1C/G1/1785/###/###	1785	18,24
NP/L1C/G1/14C/SL1C/G1/1825/###/###	1825	18,24
NP/L1C/G1/14C/SL1C/G1/1845/###/###	1845	18,24
NP/L1C/G1/14C/SL1C/G1/1865/###/###	1865	18,24
NP/L1C/G1/14C/SL1C/G1/1885/###/###	1885	19,20
NP/L1C/G1/14C/SL1C/G1/1925/###/###	1925	19,20
NP/L1C/G1/14C/SL1C/G1/1945/###/###	1945	19,20
NP/L1C/G1/14C/SL1C/G1/1965/###/###	1965	19,20
NP/L1C/G1/14C/SL1C/G1/1985/###/###	1985	20,16

***Achtung!** Im Außenbereich (IP65 und IP65 Premium) ist maximal ein Leuchteneinsatz in der Länge von 112 mm bis 1008 mm realisierbar.
***Attention!** In outdoor areas (IP65 and IP65 Premium), a maximum of one luminaire insert can be manufactured in lengths from 112 mm to 1008 mm.
**Leistungsangaben ±10 % | performance data ±10 %

IP-Schutzarten und Ausführungen
IP protection ratings and variants



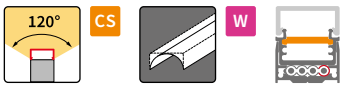
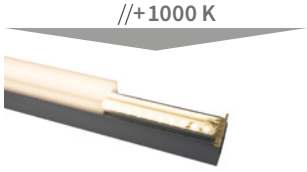
Je nach Anwendung gibt es verschiedene Schutzarten für unsere LED-Leuchteneinsätze. Als Standard bieten wir unsere Leuchten in IP40 an. Für die Schutzart IP65 vergießen wir unsere Leuchten mit einem hochwertigen transparenten Polyurethan-Verguss (PU-Verguss), frei von störenden Mikroblasen.
Beim patentierten FLASHAAR® PremiumCoating (IP65 Premium) wird ein spezielles Cover über die hochwertigen LED-Alukernplatinen geklipst. Das Cover verhindert den direkten Kontakt mit dem Gießharz bzw. PU-Verguss und verhindert somit einen unerwünschten Farbdrift.

Achtung! Ein Leuchteneinsatz mit IP65- oder IP65 Premium-Verguss ist ausschließlich in den Längen von 112 mm bis 1008 mm realisierbar.

Depending on the application, there are different protection types for our LED light inserts. As standard, we offer the luminaires in IP40. For protection type IP65, we cast our luminaires with a high-quality transparent polyurethane encapsulation (PU encapsulation) free of undesirable microbubbles.
With the patented FLASHAAR® PremiumCoating (IP65 Premium), a special cover is clipped over the high-quality LED aluminium core boards. The cover prevents direct contact with the casting resin or PU potting and thus prevents unwanted colour drift.

Attention! A light insert with IP65 or IP65 Premium encapsulation can only be manufactured in lengths from 112 mm to 1008 mm.

Beispiel: Vergleich Farbtemperatur und Lumenstrom bei verschiedenen Schutzarten
example: Comparison of colour temperature and lumen output for different protection types

vermessene Leuchte* measured luminaire	IP40	IP65	IP65 Premium
Beispiel/ Example: NP Navigator-3; 2700 K NP/L1C/G1/03F/L1C/G1/0510/827 	2700 K 1582 lm/m // **2738 K** 	2700 K 1058 lm/m // **3738 K** //+1000 K 	2700 K 1336 lm/m // **2738 K** 

* Alle Angaben unterliegen den Messtoleranzen. Systembeispiel – Werte gelten für NP Navigator-3, nicht für dieses Produkt.
* All figures are subject to measurement tolerances. System example – the values apply to NP Navigator-3, not to this product.

Lichtverteilungskurven mit verschiedenen Abdeckungen NP/L1C/G1/14C
light distribution curves with different covers NP/L1C/G1/14C

IP40

cover	T transparent	F frosted	W white	G grey	M microprismatic
cover round 120° 120° CR	1431 lm/m	1355 lm/m	594 lm/m		
cover square 120° 120° CS	1385 lm/m	1263 lm/m	685 lm/m	502 lm/m	1111 lm/m
cover flat 120° 120° CF	1339 lm/m	1218 lm/m	670 lm/m		

Alle Werte in der Tabelle gemessen bei 2700 K. Messwerte unterliegen den typischen Toleranzen. Alle optischen und elektrischen Daten haben eine Toleranz von ±10 %. Andere Konfigurationen auf Anfrage. Vollständige photometrische Messdaten für IP65 / IP65 Premium auf Anfrage.
All values in the table measured at 2700 K. Measured values are subject to the typical tolerances. All optical and electrical data have a tolerance of ±10 %. Configurations available on request. Full photometric measurement data for IP65 / IP65 Premium is available on request.

Lichtverteilungskurven mit verschiedenen Linsen/Einschublinsen NP/L1C/G1/14C

light distribution curves with different lenses/insert lenses NP/L1C/G1/14C

IP40

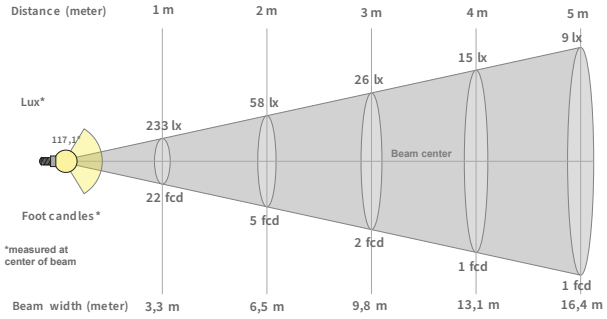
lenses	T transparent	F frosted
lens 90° (90° L9)	1385 lm/m	1355 lm/m
lens 60° (60° L6)	1431 lm/m	1355 lm/m
lens 30° (30° L3)	1309 lm/m	1278 lm/m
lens 15° (15° L1)		1278 lm/m
lens LAF-2 asymmetric (5° 10° LA)		1278 lm/m

lenses	T transparent IP40	F frosted IP65 PREMIUM
insert lens Batwing (120° ILBW CS)	822 lm/m	
insert lens Wallwasher asymmetric (15° ILWW CS)	928 lm/m	
insert lens 30° (30° IL3F CS)	989 lm/m	
insert lens 15° (15° IL1F CS)	974 lm/m	
insert lens ILAF asymmetric (60° ILA CS)		761 lm/m

Alle Werte in der Tabelle gemessen bei 2700 K. Messwerte unterliegen den typischen Toleranzen. Andere Konfigurationen erhalten Sie auf Anfrage. Alle lichttechnischen Daten – vermessen im FLASHAAR® Lichtlabor – finden Sie unter flashaar.de im Download-Bereich. Alle optischen und elektrischen Daten haben eine Toleranz von ±10 %. **Vollständige photometrische Messdaten für IP65/IP65 Premium auf Anfrage.**

All values in the table measured at 2700 K. Measured values are subject to the typical tolerances. Other configurations are available on request. All photometric data – measured in FLASHAAR's light laboratory – available at flashaar.de/en in the download area. All optical and electrical data have a tolerance of ±10 %. **Full photometric measurement data for IP65/IP65 Premium on request.**

Lichtstärke*:
gemessen am Beispiel einer transparenten, runden Abdeckung (CRT)
Luminous intensity*:
measured with a transparent round cover (CRT)

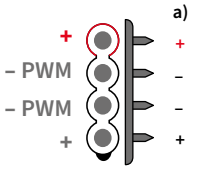


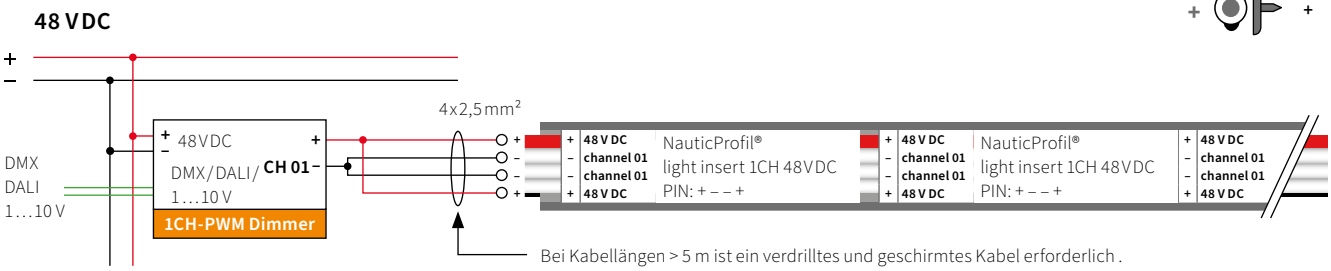
EPREL-Daten: 2200 K 2700 K 3000 K 4000 K 6500 K

Verdrahtungsschemata
wiring diagrams

WD/L/1CH/48V/1D/PWM

NP-Leuchteneinsätze mit redundanter PIN-Belegung, 1 Kanal, 48 V DC, Betrieb mit einem 1-Kanal-Dimmer, PWM-dimmbar
NP light insert with redundant pin configuration, 1 channel, 48 V DC, operates with one 1-channel dimmer, PWM dimmable

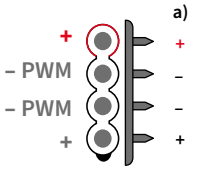


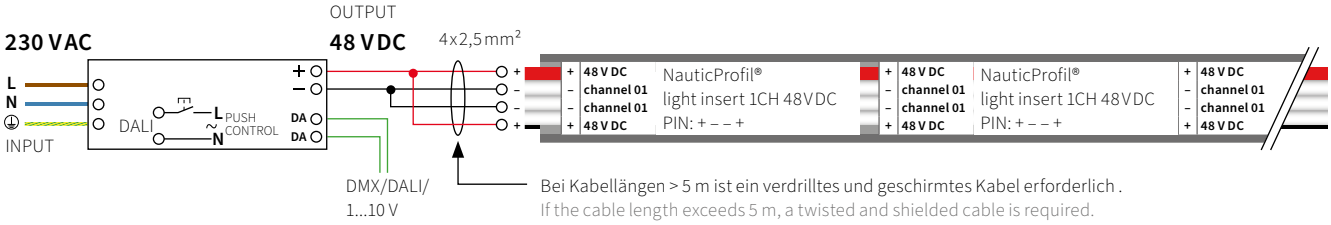


Bei Kabellängen > 5 m ist ein verdrilltes und geschirmtes Kabel erforderlich .
If the cable length exceeds 5 m, a twisted and shielded cable is required.

WD/L/1CH/48V/DALI/PWM

NP-Leuchteneinsatz mit redundanter PIN-Belegung, 1 Kanal, 48 V DC, DALI-Ansteuerung (integrierter Konverter), PWM-dimmbar
NP light insert with redundant pin configuration, 1 channel, 48 V DC, DALI control (integrated converter), PWM dimmable



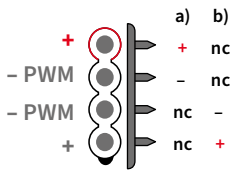


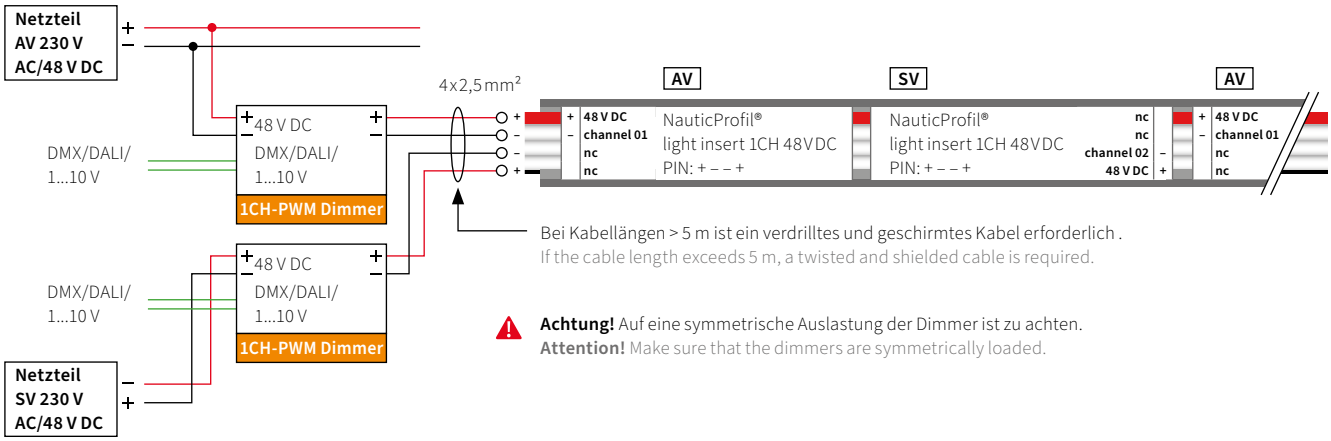
Bei Kabellängen > 5 m ist ein verdrilltes und geschirmtes Kabel erforderlich .
If the cable length exceeds 5 m, a twisted and shielded cable is required.

WD/L/2x1CH/48V/2D/PWM

AV = Allgemeine Versorgung
General power supply
SV = Sicherheitsversorgung/ Notstrom
Emergency power supply

NP-System mit zwei 1CH-Leuchteneinsätzen für die Realisierung einer Sicherheits-/Notstrombeleuchtung (zwei Kanäle und zwei getrennte Versorgungen), 48 V DC, Betrieb mit zwei 1-Kanal-Dimmer, PWM-dimmbar
NP-System with two 1-channel luminaire inserts for the installation of safety/emergency lighting (two channels and two separate power supplies), 48 V DC, operated by two 1-channel dimmers, PWM dimmable





Bei Kabellängen > 5 m ist ein verdrilltes und geschirmtes Kabel erforderlich .
If the cable length exceeds 5 m, a twisted and shielded cable is required.

Achtung! Auf eine symmetrische Auslastung der Dimmer ist zu achten.
Attention! Make sure that the dimmers are symmetrically loaded.

* Standard PIN-Belegung ist + – – + (WD/L/1CH/48V/1D/PWM) / Weitere Verdrahtungsschemata in unserem aktuellen Katalog.
standard pin layout is + – – + (WD/L/1CH/48V/1D/PWM) / Further wiring diagrams can be found in our current catalogue.

Übersicht Abmessungen und Einbaumaße mit dem Basisprofil G1

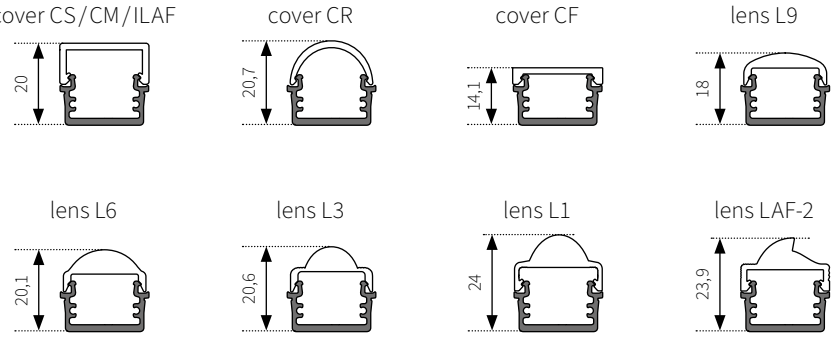
overview dimensions and installation dimensions with base profile G1

covers and lenses ►

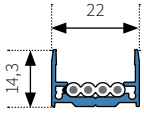


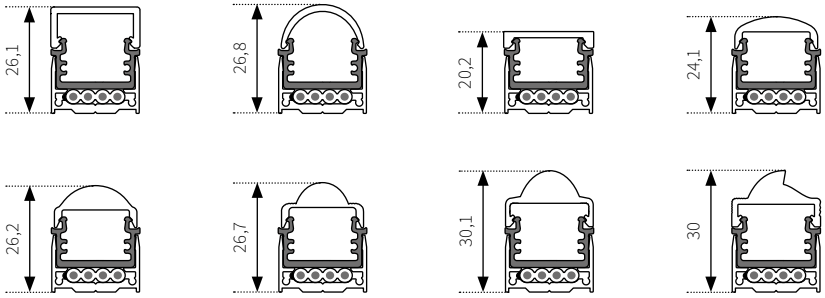
NP mounting profiles

▼

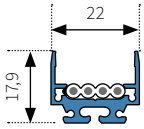


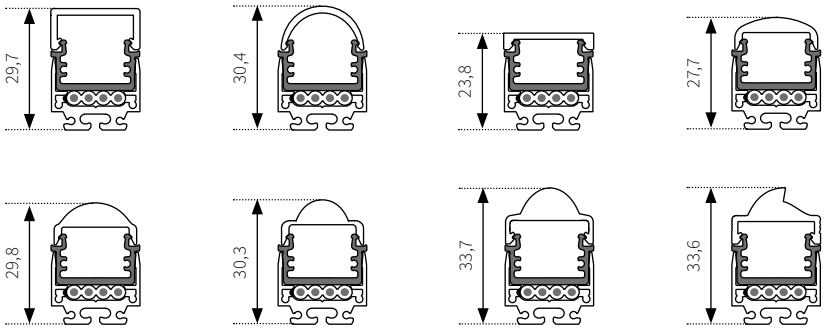
NP-S1



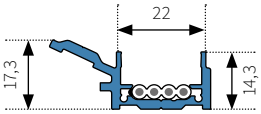


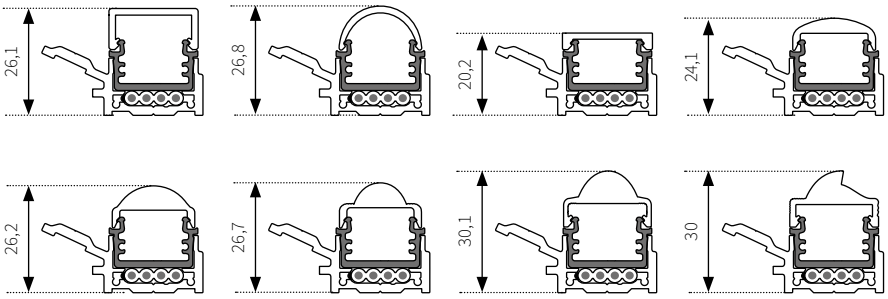
NP-S2





NP-S3





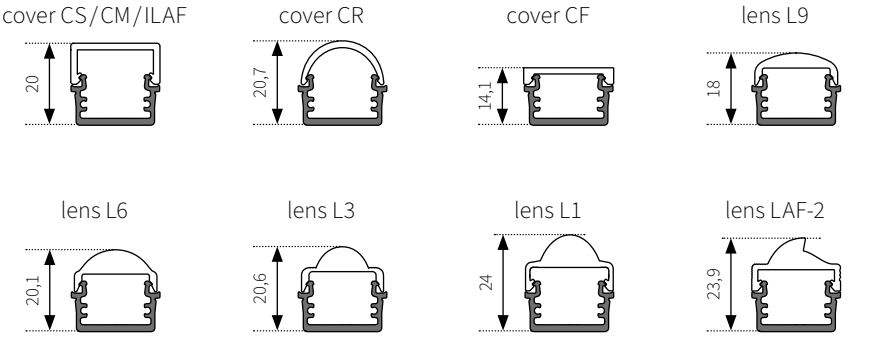
Übersicht Abmessungen und Einbaumaße mit dem Basisprofil G1

overview dimensions and installation dimensions with base profile G1

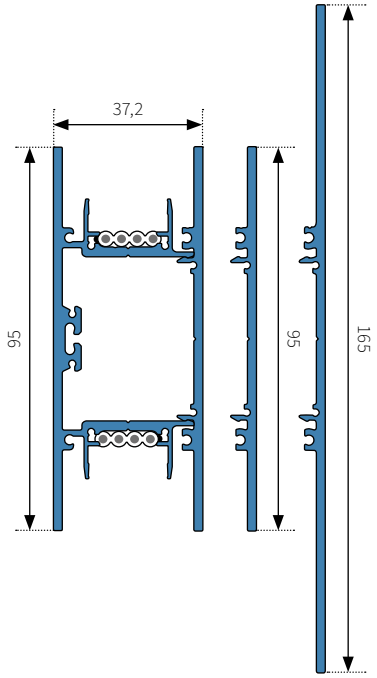
covers and lenses ►

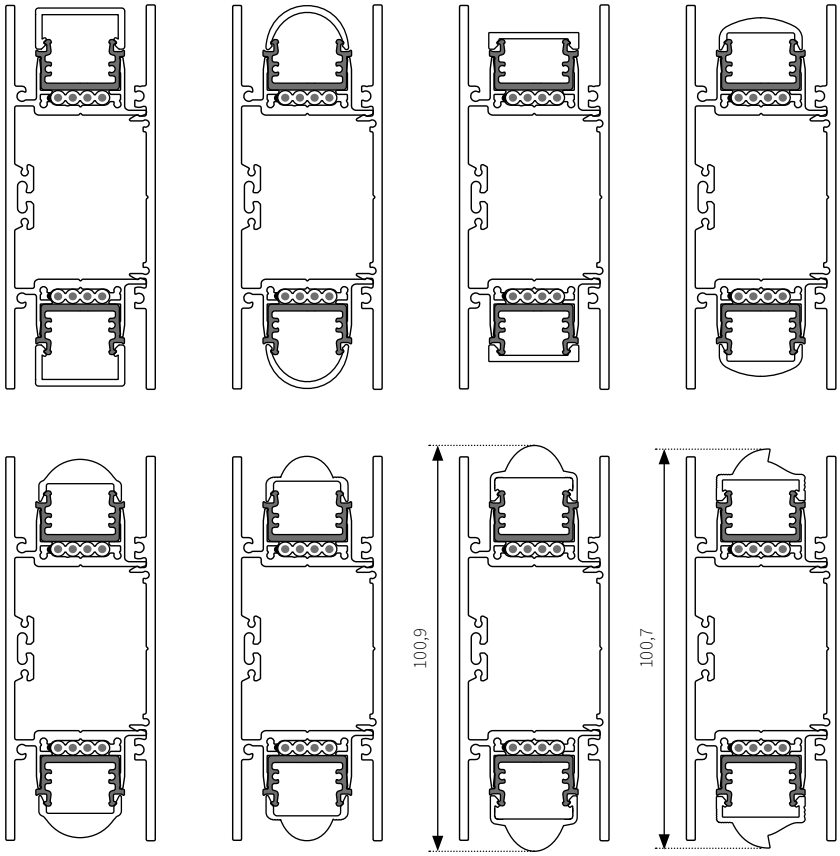
NP mounting profiles

▼

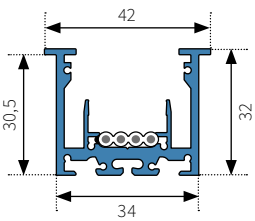


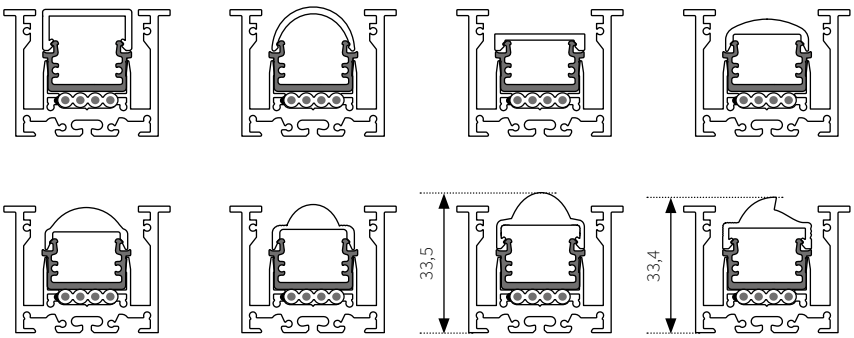
NP-H1 / H2





NP-R1





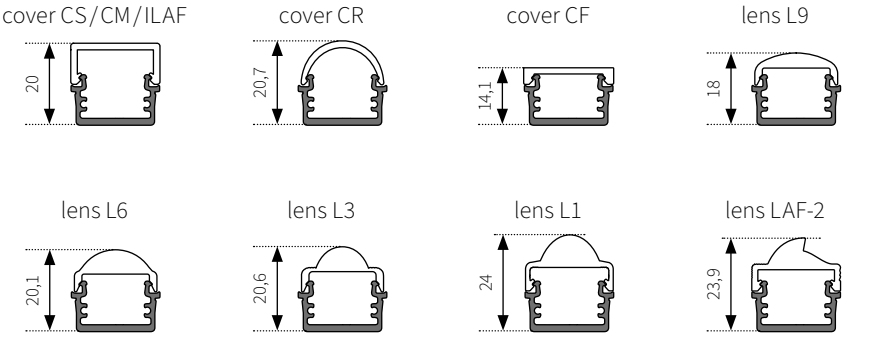
Übersicht Abmessungen und Einbaumaße mit dem Basisprofil G1

overview dimensions and installation dimensions with base profile G1

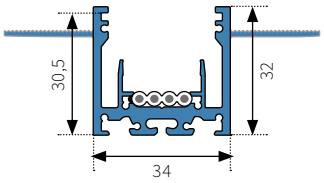
covers and lenses ►

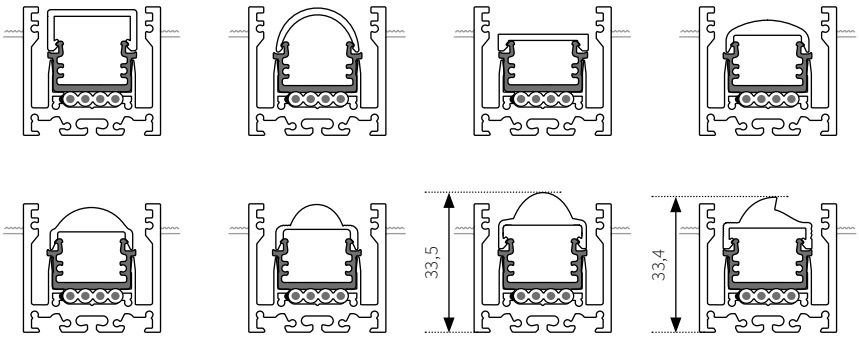
NP mounting profiles

▼

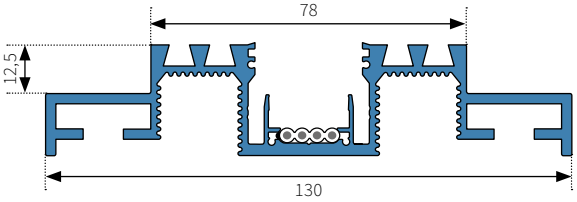


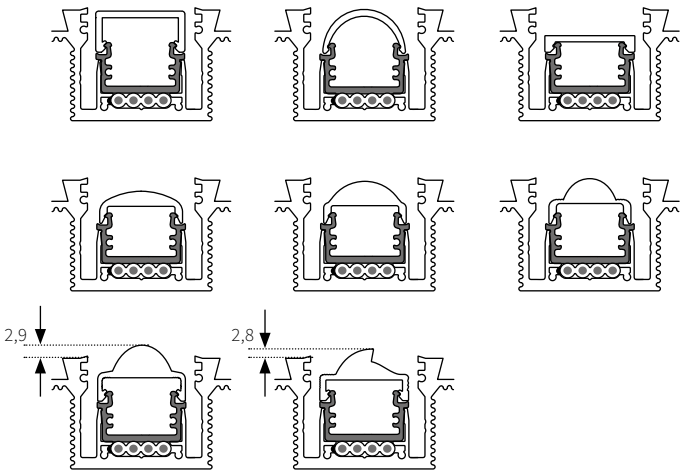
NP-R2 / R4



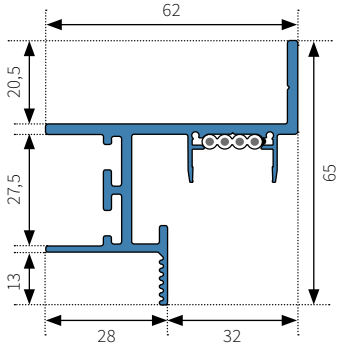


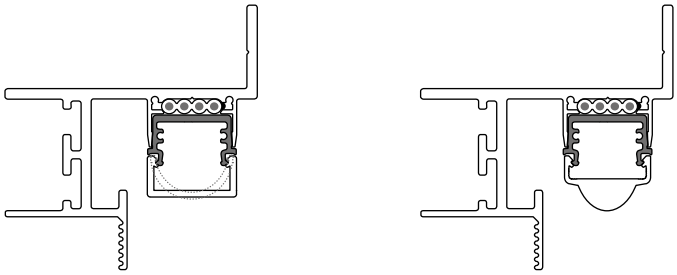
NP-R3





NP-R5





Alle Maßangaben in mm.

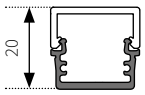
All dimensions in mm

Übersicht Abmessungen und Einbaumaße mit dem Basisprofil G1

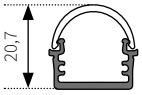
overview dimensions and installation dimensions with base profile G1

covers and lenses ►

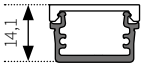
cover CS / CM / ILAF



cover CR



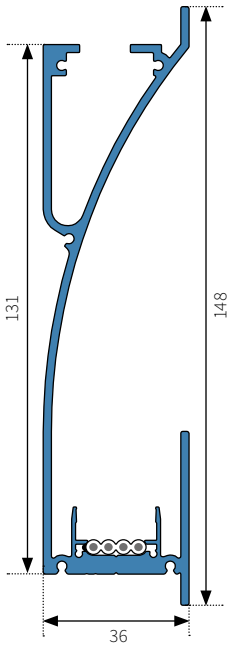
cover CF

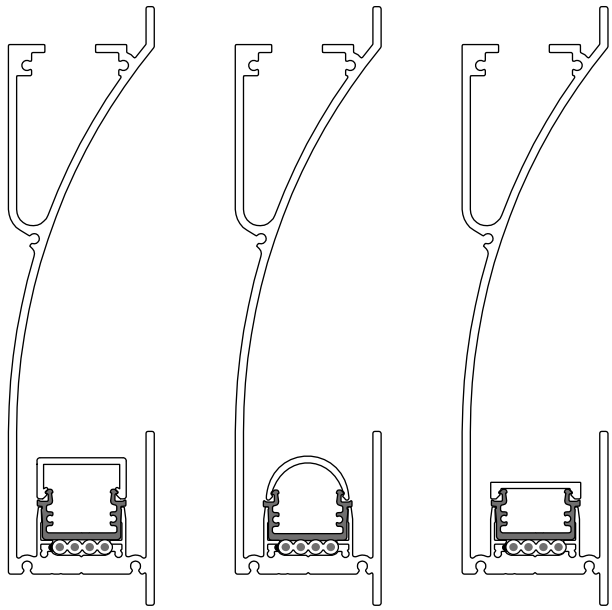


NP mounting profiles

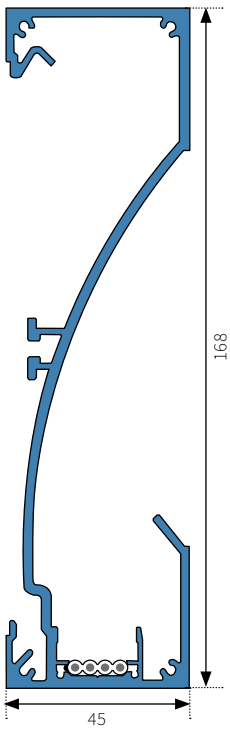
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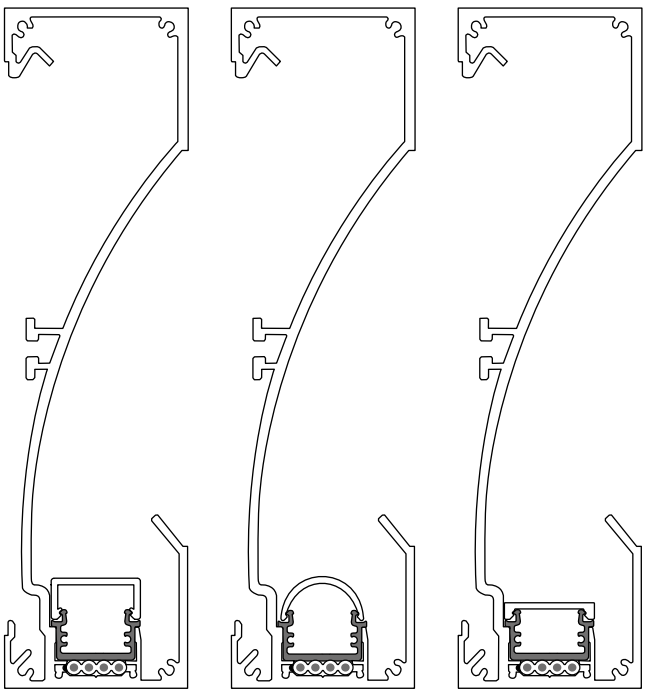
NP-I1





NP-I2





Alle Maßangaben in mm.

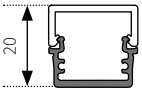
All dimensions in mm

Übersicht Abmessungen und Einbaumaße mit dem Basisprofil G1

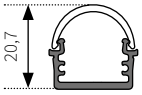
overview dimensions and installation dimensions with base profile G1

covers and lenses ►

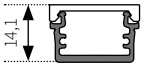
cover CS/CM/ILAF



cover CR



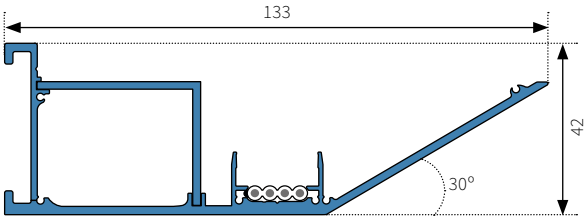
cover CF

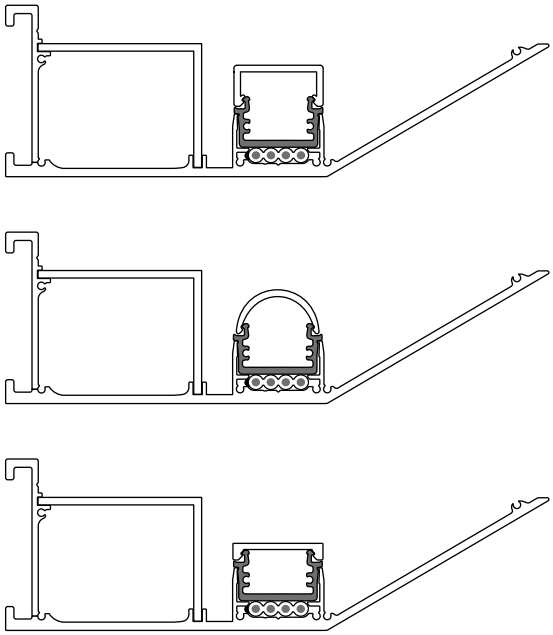


NP mounting profiles

▼

NP-W1





Alle Maßangaben in mm.

All dimensions in mm

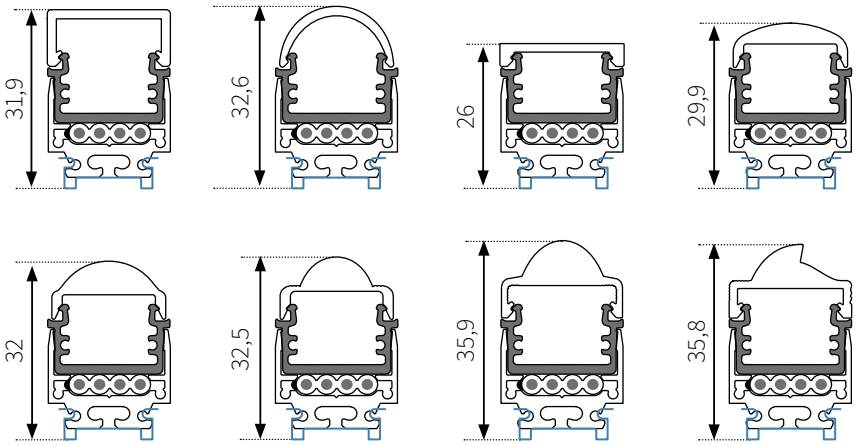
Übersicht Abmessungen und Einbaumaße NP-S2 mit Montageclips mit dem Basisprofil G1

overview dimensions and installation dimensions NP-S2 with mounting clips with base profile G1

FL/SCLIP-0/0

Federclip 0°

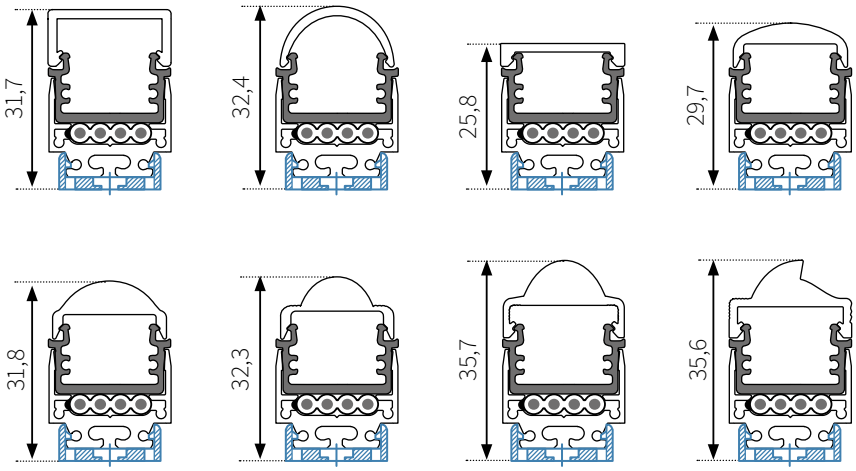
spring clip 0°



FL/CLIP-0/0

Montageclip 0°, ohne Zapfen gegen Gleiten

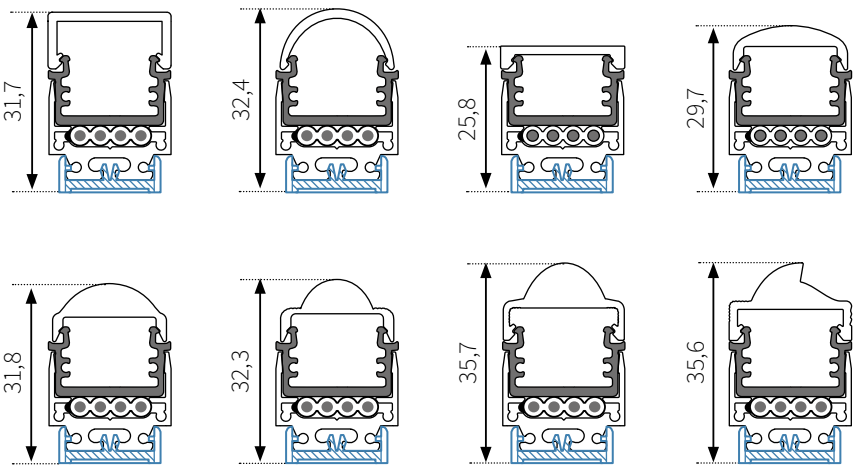
mounting clip 0°, without stud to prevent sliding



FL/CLIP-1/0

Montageclip 0°, mit Zapfen gegen Gleiten

mounting clip 0°, with stud to prevent sliding



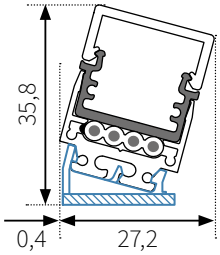
Übersicht Abmessungen und Einbaumaße NP-S2 mit Montageclips mit dem Basisprofil G1

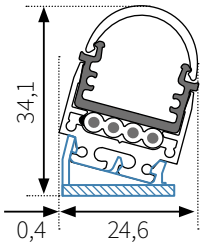
overview dimensions and installation dimensions NP-S2 with mounting clips with base profile G1

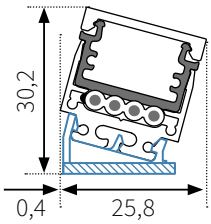
FL/CLIP-1/15

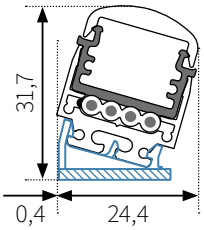
Montageclip 15°, mit Zapfen gegen Gleiten

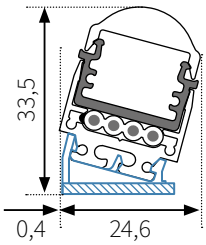
mounting clip 15°, with stud to prevent sliding

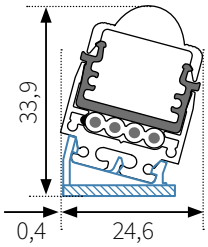


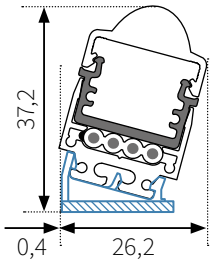


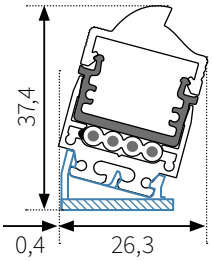








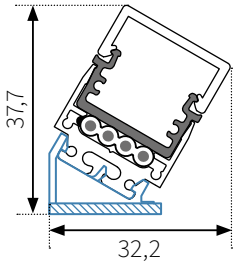


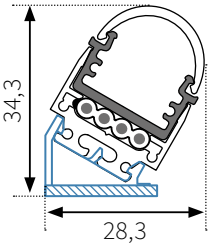


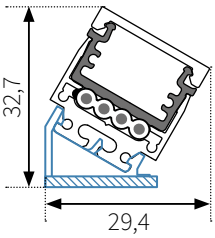
FL/CLIP-1/30

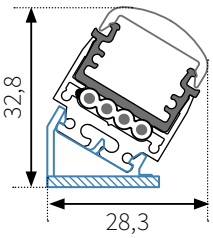
Montageclip 30°, mit Zapfen gegen Gleiten

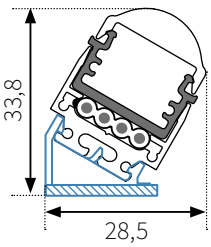
mounting clip 30°, with stud to prevent sliding

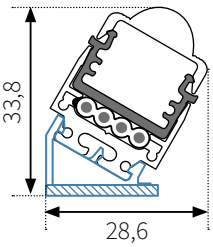


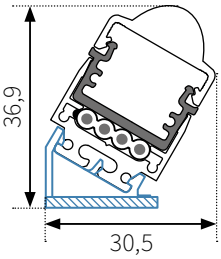


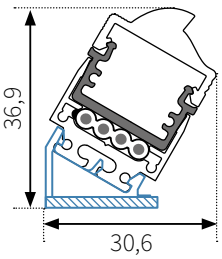












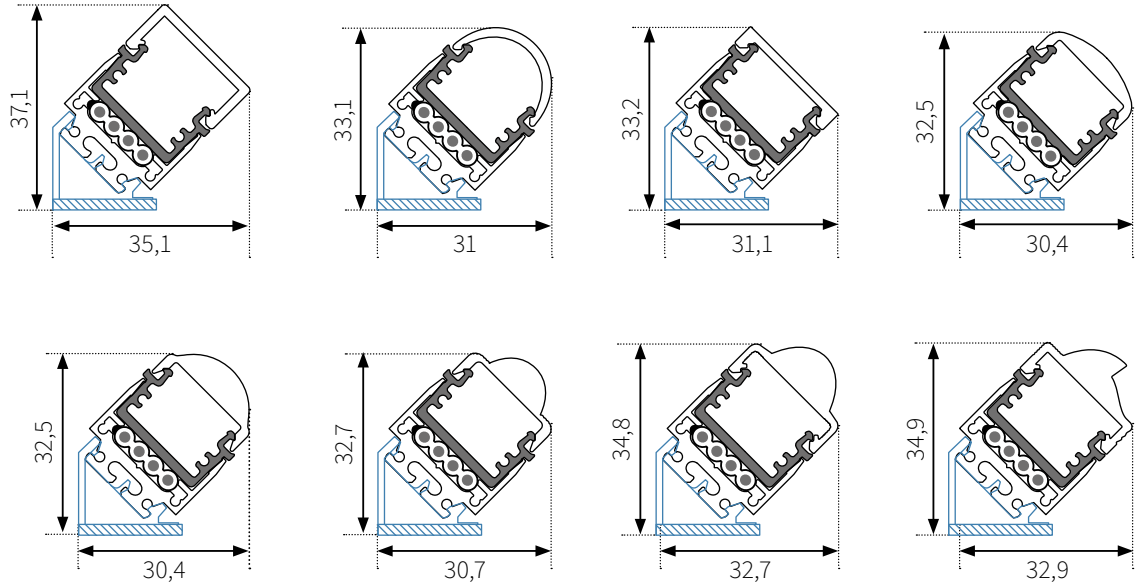
Übersicht Abmessungen und Einbaumaße NP-S2 mit Montageclips mit dem Basisprofil G1

overview dimensions and installation dimensions NP-S2 with mounting clips with base profile G1

FL/CLIP-1/45

Montageclip 45°, mit Zapfen gegen Gleiten

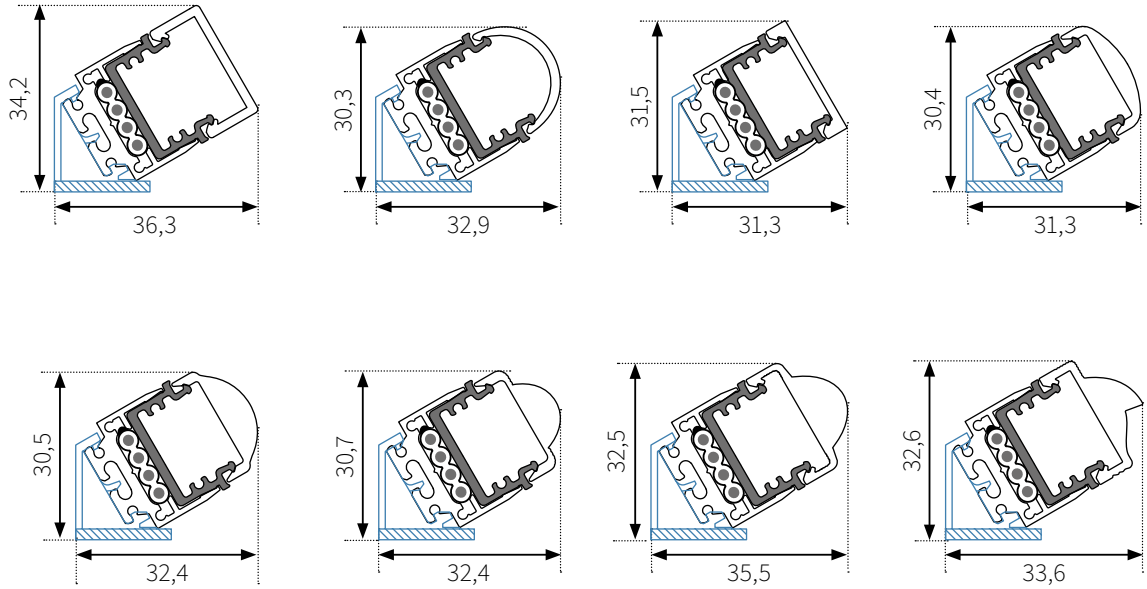
mounting clip 45°, with stud to prevent sliding



FL/CLIP-1/60

Montageclip 60°, mit Zapfen gegen Gleiten

mounting clip 60°, with stud to prevent sliding



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- gewünschte Lieferzeit
- Lieferadresse

Bestelladresse
FLASHAAR LEDLight GmbH & Co. KG
Gaustraße 13 –15
55411 Bingen am Rhein
Deutschland
FON +49 6721 9195-0
FAX +49 6721 9195-91
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Germany
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