

VERLICHTING

# Frensch LED verlichting















Reken op ons.

## ZEICHENERKLÄRUNG | LEGEND

### OBERFLÄCHEN | FINISHES

Die folgenden Icons sind in diesem Katalog verwendet worden, um verfügbare Oberflächen und Farben der Produkte zu kennzeichnen.


The following icons are used throughout this catalog to indicate available finishes and Colors for products.


 weiß, RAL 9010 white, RAL 9010	 edelstahl stainless steel 316
 klar clear	 chrom matt chrome matt
 schwarz, RAL 9005 black, RAL 9005	 chrom chrome
 grau, RAL 7035 grey, RAL 7035	 eloxiert anodic
 nickel nickel	 titanium titanium
 anthrazit, RAL 7016 antracite, RAL 7016	 rot, RAL 3000 red, RAL 3000

 Bezeichnet die Spannung der Leuchte.  
Indicates the voltage of the light.

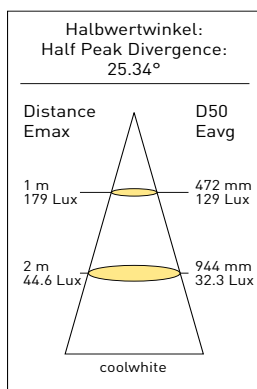
 Bezeichnet die Leistungsaufnahme der Leuchte.  
Indicates the power consumption of the light.

 Lumen nach EN62717.  
Lumen by EN62717.

 Kennzeichnet die Nachtlicht Option.  
Indicates the Nightlight-Option.

 Bezeichnet die ökologische Verträglichkeit der Leuchte.  
Indicates the ecological compability of the light.

 Zulassung in USA. Explosionsgeschützt.  
Ignition protected ISO 8846/NMMA.



**Lichtverteilungskurven**  
Lichttechnische Angaben sind unverbindliche Richtwerte die immer mit kaltweißem Leuchtmittel durchgeführt wurden. Ausführliche Daten (LVK, Lumen, CRI) erhalten Sie auf Anfrage.

**Light distribution graph**  
Photometric data are approximate values and for lights with coolwhite source. Current detailed photometric data (LDG, Lumen, CRI) are available on request.

### Lichtfarben

cw = kaltweiß, ca. 6.000° Kelvin  
ww = warmweiß, ca. 3.000° Kelvin  
Andere Lichtfarben auf Anfrage.

### Lightcolors


cw = coolwhite, ca. 6,000° Kelvin  
ww = warmwhite, ca. 3,000° Kelvin  
Other light colors on request.

### IP-SCHUTZKLASSE | IP-RATINGS

Der Widerstand der Vorrichtung gegen das Eindringen von Feststoffen und Flüssigkeiten wird durch das Präfix „IP“ angezeigt (International Protection), gefolgt von zwei Zahlen. Die erste Zahl kennzeichnet den Grad des Schutzes gegen Feststoffe, die zweite Zahl bezeichnet den Grad an Schutz gegen Flüssigkeiten.

The resistance offered by the fixture to the penetration of solids and liquids is indicated by the prefix „IP“ (International Protection) followed by two numbers. The first number identifies the degree of protection against solids; the second number signifies the degree of protection against liquids.

 Geschützt gegen Körper größer als 1 mm; nicht gegen Flüssigkeiten geschützt.  
Protected against solids larger than 1 mm; not protected against liquids.

 Geschützt gegen Staub, nicht gegen Flüssigkeiten geschützt.  
Protected against dust, not protected against liquids.

 Kompletzt geschützt gegen Staub und Wasserstrahlen aus allen Richtungen.  
Completely protected against dust and protected against jets of water from all directions.

 Kompletzt geschützt gegen Staub und gegen die Folgen von Eintauchen (30min bis zu 1 Meter Tiefe)  
Completely protected against dust and protected against the consequences of immersion. (30 min of a depth up to 1 meter)

 Zeigt an, dass die Leuchte für die direkte Montage auf normal brennbaren Oberflächen geeignet ist.  
Indicates that fixture is suitable for direct mounting on normally flammable surfaces.

 Bezeichnet die Schutzklasse drei der Leuchte.  
Indicates protection class 3 of the light.

Alle unsere Produkte sind CE, RoHs (2011/65/EU) und REACH konform. Wenn erforderlich zertifiziert (E1, E13, EN50155 usw.) und folgen allen zutreffenden Normen und Richtlinien bezüglich EMV, ESD und ISO-Störfestigkeit. Alle eingesetzten Kunststoffe sind UV-stabil, selbstverlöschend und entsprechen der ECE-R118/95/28/EC Richtlinie.

All our products are CE, RoHs (2011/65/EU) and REACH conform. If required certified (E1, E13, EN50155 etc.) and follow all applicable norms and guidelines regarding EMC, ESD and iso transient immunity test pulses. All used plastics are UV-resistant, self-extinguishing and meet the ECE-R118/95/28/EC requirement.

### ENERGIEEFFIZIENZ | ENERGY EFFICIENCY

 Bezeichnet die Energieeffizienzklasse der Leuchte nach EU-Richtlinie 87412012.  
Indicates the energy efficiency of the light according EU-Directive 87412012.



## VORTEILE EINER HOCHWERTIGEN LED-LEUCHTE

- **Hohe Energieeffizient**
  - > bis zu 150 Lumen/Watt und weiter steigend
- **Geringer Stromverbrauch**
  - > Einsparung bis zu 70%, CO<sub>2</sub> Reduzierung
- **High Quality Licht**
  - > kein Kompromiss zwischen Wirkungsgrad und Farbwiedergabe (CRI > 70 coolwhite, > 80 warmwhite)
- **Lange Lebensdauer**
  - > bis zu 50.000 Stunden (70% der Ursprungshelligkeit)
- **Erschütterungsunempfindlich**
  - > keine brechende Glühwendel
- **Keine Wartungskosten**
  - > kein Leuchtmittelwechsel
- **Schnellstart**
  - > erreicht die volle Helligkeit in Nanosekunden
- **Umweltfreundlich**
  - > enthalten kein Blei, Quecksilber oder andere Schwermetalle
- **Dimmbar**
  - > über Pulsweitenmodulation (PWM)
- **Geringere Wärmeentwicklung**
  - > keine Wärme im Strahlengang
- **Großer Betriebstemperaturbereich**
  - > -40°C bis +60°C
- **Touchsensor Technologie**
  - > kein konventioneller Wippenschalter

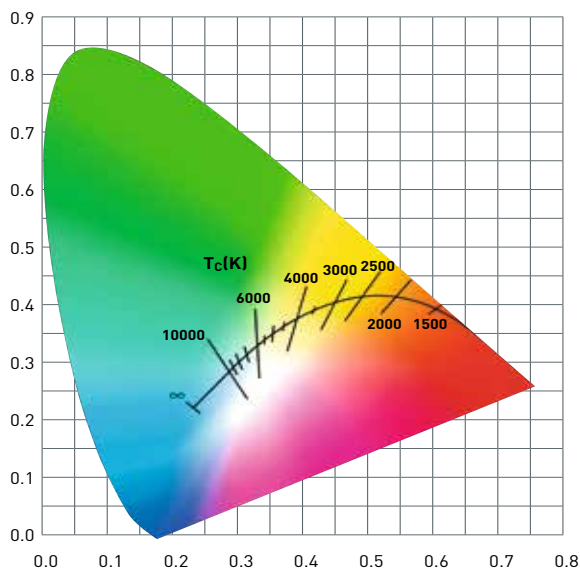
Wir verwenden ausschließlich hochwertige LED von führenden Herstellern wie Cree, Avago, Osram, Luxeon, Nichia usw.

## BASIC ADVANTAGE OF AN HIGH QUALITY LED-LIGHT

- **Very energy efficient**
  - > greater than 150 Lumen/watt and still improving
- **Low energy consumption**
  - > energy saving up to 70%, CO<sub>2</sub> reduction
- **High quality light**
  - > no compromise between efficacy and CRI (CRI > 70 coolwhite, > 80 warmwhite)
- **Extremely long lifetime**
  - > 50,000 hours to 70% lumen maintenance
- **No maintenance costs**
  - > no change of bulb
- **Inherently rugged**
  - > no filament to break
- **Instant on**
  - > reaches full brightness in nanoseconds
- **Environmentally friendly**
  - > contains no mercury, lead or other heavy metals
- **Dimmable**
  - > via pulse wide modulation (PWM)
- **Low heat emission**
  - > no heat in light beam
- **Wide operating temperature range**
  - > -40°C to +60°C
- **Touchsensor Technology**
  - > no conventional rocker switch

We use only LED from leading manufacturers like Cree, Avago, Osram, Luxeon, Nichia etc.

## CIE-NORMTAFEL | CIE-CHROMATICITY DIAGRAMM



Die Marke **FRENSCHLIGHTING** und das Design unserer Leuchten sind gebrauchsmustergeschützt. The brand **FRENSCHLIGHTING** and the design of our products is registered and protected.

### **Made in Germany**

Alle Leuchten der F- und R-Serie werden in Deutschland entwickelt und produziert. All lights of the F- and R-series are designed and produced in Germany.

# F-1

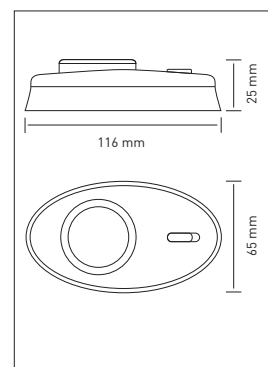
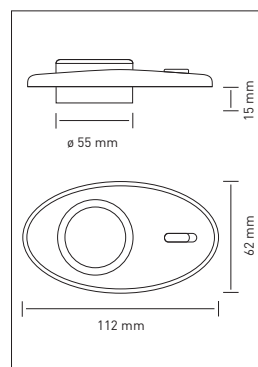
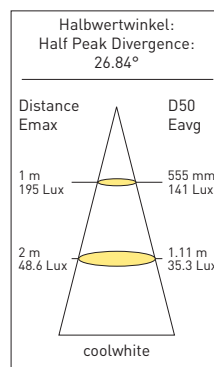


Einbau



Aufbau

Gehäuse   Housing	Polycarbonat/ABS   Polycarbonate/ABS
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	7 SMD LED, warm- oder kaltweiß   warm- or coolwhite
Schalter   Switch	ja   yes
Dimmbar   Dimmable	nein   no
Klasse   Class	
Besonderheiten   Features	Dreh- und schwenkbar   Revolving and swivelling



### Farben | Colors



### Technische Daten | Technical Data

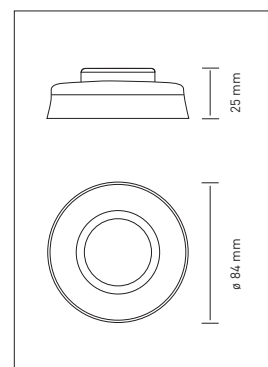
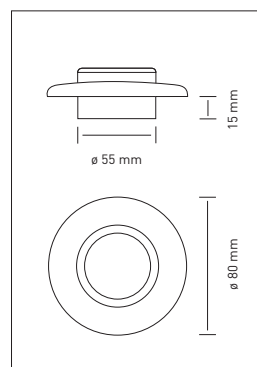
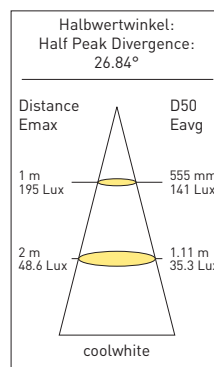
Voltage	Watt	Φ-lm	IP
10-30	2	75	IP40

Typ		Switch	Housing Color	Order No.
	<b>F-1 LED 2 Watt Recessed/Surface mount</b>			
	F-1 Recessed 10-30 Volt/DC LED coolwhite	yes	white	4472
	F-1 Recessed 10-30 Volt/DC LED coolwhite	yes	black	4476
	F-1 Recessed 10-30 Volt/DC LED warmwhite	yes	white	5428
	F-1 Recessed 10-30 Volt/DC LED warmwhite	yes	black	5429
	F-1 Surface mount 10-30 Volt/DC LED coolwhite	yes	white	4452
	F-1 Surface mount 10-30 Volt/DC LED coolwhite	yes	black	4456
	F-1 Surface mount 10-30 Volt/DC LED warmwhite	yes	white	5438
F-1 Surface mount 10-30 Volt/DC LED warmwhite	Yes	black	5439	

# F-2



Gehäuse   Housing	Polycarbonat/ABS   Polycarbonate/ABS
Befestigung   Mounting	Schrauben oder Klemmen   Screw or Snap in
Lichtquelle   Light source	7 SMD LED, warm- oder kaltweiß   warm- or coolwhite
Schalter   Switch	nein   no
Dimmbar   Dimmable	nein   no
Klasse   Class	
Besonderheiten   Features	Dreh- und schwenkbar   Revolving and swivelling



Farben | Colors



Technische Daten | Technical Data

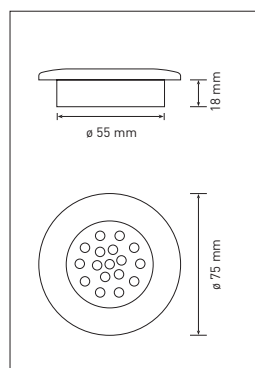
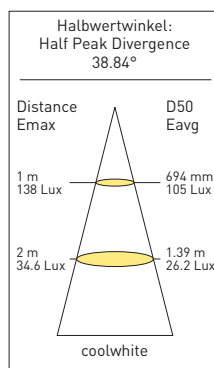
Voltage	Watt	Φ-Lm	IP
10-30	2	75	IP40

Typ	Switch	Housing Color	Order No.	
<b>F-2 LED 2 Watt Recessed/Surface mount</b>				
	F-2 Recessed 10-30 Volt/DC LED coolwhite	no	white	4591
	F-2 Recessed 10-30 Volt/DC LED coolwhite	no	black	4592
	F-2 Recessed 10-30 Volt/DC LED warmwhite	no	white	5448
	F-2 Recessed 10-30 Volt/DC LED warmwhite	no	black	5449
	F-2 Surface mount 10-30 Volt/DC LED coolwhite	no	white	4611
	F-2 Surface mount 10-30 Volt/DC LED coolwhite	no	black	4612
	F-2 Surface mount 10-30 Volt/DC LED warmwhite	no	white	5458
	F-2 Surface mount 10-30 Volt/DC LED warmwhite	no	black	5459

# F-14



Gehäuse   Housing	Polycarbonat   Polycarbonate
Befestigung   Mounting	Federn und Klemmen   Spring and Snap in
Lichtquelle   Light source	17 SMD LED, warm- oder kaltweiß   warm- or coolwhite
Schalter   Switch	nein   no
Dimmbar   Dimmable	nein   no
Klasse   Class	
Besonderheiten   Features	Nachtlicht via 2.+Leitung   Nightlight via 2 positive line



### Farben | Colors



### Technische Daten | Technical Data

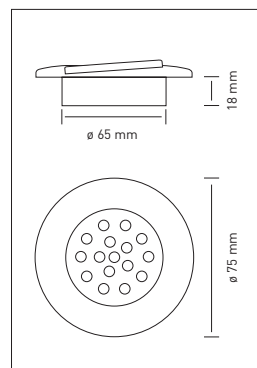
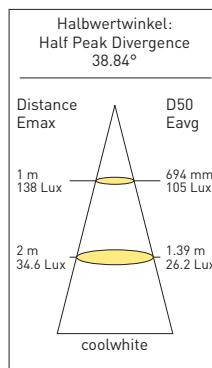
Voltage	Watt	Φ - lm	IP40
10-30	2	100	
NIGHT	NIGHT	NIGHT	

Typ	Switch	Housing Color	Order No.
<b>F-14 LED 2 Watt Recessed</b>			
F-14 10-30 Volt/DC coolwhite	no	white	6366
F-14 10-30 Volt/DC coolwhite	no	black	6367
F-14 10-30 Volt/DC coolwhite	no	grey	6368
F-14 10-30 Volt/DC warmwhite	no	white	6369
F-14 10-30 Volt/DC warmwhite	no	black	6370
F-14 10-30 Volt/DC warmwhite	no	grey	6371
<b>F-14 LED Nightlight 2 Watt Recessed</b>			
F-14 10-30 Volt/DC coolwhite/blue	no	white	6372
F-14 10-30 Volt/DC coolwhite/blue	no	black	6373
F-14 10-30 Volt/DC coolwhite/blue	no	grey	6374
F-14 10-30 Volt/DC warmwhite/blue	no	white	6375
F-14 10-30 Volt/DC warmwhite/blue	no	black	6376
F-14 10-30 Volt/DC warmwhite/blue	no	grey	6377
F-14 10-30 Volt/DC coolwhite/red	no	white	6378
F-14 10-30 Volt/DC coolwhite/red	no	black	6379
F-14 10-30 Volt/DC coolwhite/red	no	grey	6380
F-14 10-30 Volt/DC warmwhite/red	no	white	6381
F-14 10-30 Volt/DC warmwhite/red	no	black	6382
F-14 10-30 Volt/DC warmwhite/red	no	grey	6383
F-14 with Nightlight green on request. F-14 Nightlight connection via third positive line.			

# F-15



Gehäuse   Housing	Polycarbonat   Polycarbonate
Befestigung   Mounting	Klemmen   Snap in
Lichtquelle   Light source	17 SMD LED, warm- oder kaltweiß   warm- or coolwhite
Schalter   Switch	nein   no
Dimmbar   Dimmable	nein   no
Klasse   Class	VF, III
Besonderheiten   Features	Dreh- und schwenkbar, Nachtlicht via 2.+Leitung Revolving and swivelling, Nightlight via 2 positive line



### Farben | Colors



### Technische Daten | Technical Data

Voltage	Watt	Φ-lm	IP
10-30	2	100	IP40
NIGHT	NIGHT	NIGHT	

Typ	Switch	Housing Color	Order No.
<b>F-15 LED 2 Watt Recessed</b>			
F-15 10-30 Volt/DC coolwhite	no	white	6384
F-15 10-30 Volt/DC coolwhite	no	black	6385
F-15 10-30 Volt/DC coolwhite	no	grey	6386
F-15 10-30 Volt/DC warmwhite	no	white	6387
F-15 10-30 Volt/DC warmwhite	no	black	6388
F-15 10-30 Volt/DC warmwhite	no	grey	6389
<b>F-15 LED Nightlight 2 Watt Recessed</b>			
F-15 10-30 Volt/DC coolwhite/blue	no	white	6390
F-15 10-30 Volt/DC coolwhite/blue	no	black	6391
F-15 10-30 Volt/DC coolwhite/blue	no	grey	6392
F-15 10-30 Volt/DC warmwhite/blue	no	white	6393
F-15 10-30 Volt/DC warmwhite/blue	no	black	6394
F-15 10-30 Volt/DC warmwhite/blue	no	grey	6395
F-15 10-30 Volt/DC coolwhite/red	no	white	6396
F-15 10-30 Volt/DC coolwhite/red	no	black	6397
F-15 10-30 Volt/DC coolwhite/red	no	grey	6398
F-15 10-30 Volt/DC warmwhite/red	no	white	6399
F-15 10-30 Volt/DC warmwhite/red	no	black	6400
F-15 10-30 Volt/DC warmwhite/red	no	grey	6401
F-15 with Nightlight green on request. F-15 Nightlight connection via third positive line.			

# F-19

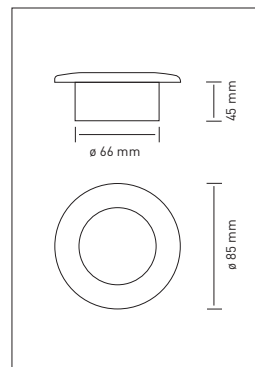
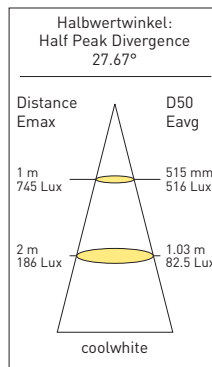


F-19 | Dekorring weiß  
F-19 | Trim ring white



F-19 | Dekorring chrom  
F-19 | Trim ring chrome

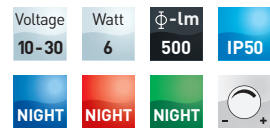
Gehäuse   Housing	Polycarbonat   Polycarbonate
Befestigung   Mounting	Federn oder Schrauben   Spring or Screw
Lichtquelle   Light source	1 High Output PowerLED, warm- oder kaltweiß, 2 Side LED 1 High Output PowerLED, warm- or coolwhite, 2 Side LED
Schalter   Switch	nein   no
Dimmbar   Dimmable	ja, via externes PWM Signal   yes, via external PWM signal
Klasse   Class	
Besonderheiten   Features	Patentierter Präzisionsoptik   Patented high precision optic



### Dekorringfarben | Trim ring Colors



### Technische Daten | Technical Data



Dekorring bitte separat bestellen.  
Trim ring has to be ordered separate.

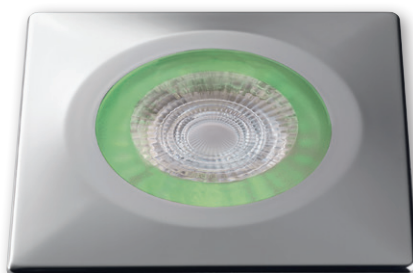
Typ	Switch	Housing Color	Order No.	
<b>F-19 LED 6 Watt Recessed</b>				
	F-19 basic module recessed 10-30 Volt/DC warmwhite	no	6815	
	F-19 basic module recessed 10-30 Volt/DC warmwhite Signaldim	no	6816	
	F-19 basic module recessed 10-30 Volt/DC coolwhite	no	6820	
	F-19 basic module recessed 10-30 Volt/DC coolwhite Signaldim	no	6821	
	<b>F-19 LED 6 Watt dimmable + Nightlight Recessed</b>			
	F-19 basic module recessed 10-30 Volt/DC warmwhite dim./red	no	6817	
	F-19 basic module recessed 10-30 Volt/DC coolwhite dim./red	no	6822	
	F-19 basic module recessed 10-30 Volt/DC warmwhite dim./blue	no	6818	
	F-19 basic module recessed 10-30 Volt/DC coolwhite dim./blue	no	6823	
	F-19 basic module recessed 10-30 Volt/DC warmwhite dim./green	no	6819	
F-19 basic module recessed 10-30 Volt/DC coolwhite dim./green	no	6824		
Dimmable and dimmable/ Nightlight F-19 modules work via third line on ground (Nightlight) or to dimmer R-570.				
<b>F-19 Trim ring round</b>				
	F-19 Trim ring round Polycarbonate	no	white	6797
	F-19 Trim ring round Polycarbonate	no	black	6798
	F-19 Trim ring round Polycarbonate	no	grey	6799
	F-19 Trim ring round Polycarbonate	no	chrome	6800
	F-19 Trim ring round Polycarbonate	no	titanium	6801
	F-19 Trim ring round AISI316	no	stainless steel	7125



# F-19 Quattro

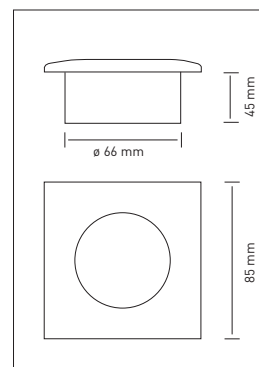
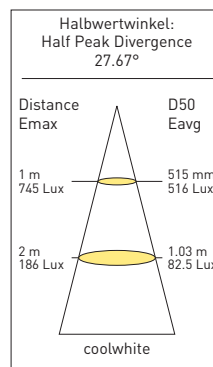


F-19 Quattro | Dekorring Titan  
F-19 Quattro | Trim ring titanium

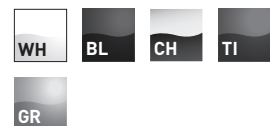


F-19 Quattro | Dekorring chrom  
F-19 Quattro | Trim ring chrome

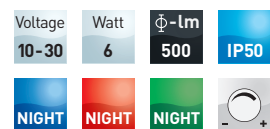
Gehäuse   Housing	Polycarbonat   Polycarbonate
Befestigung   Mounting	Federn oder Schrauben   Spring or screw
Lichtquelle   Light source	1 High Output PowerLED, warm- oder kaltweiß, 2 Side LED 1 High Output PowerLED, warm- or coolwhite, 2 Side LED
Schalter   Switch	nein   no
Dimmbar   Dimmable	ja, via externes PWM Signal   yes, via external PWM signal
Klasse   Class	
Besonderheiten   Features	Patentierter Präzisionsoptik   Patented high precision optic



Dekorringfarben | Trim ring Colors



Technische Daten | Technical Data



Dekorring bitte separat bestellen.  
Trim ring has to be ordered separate.

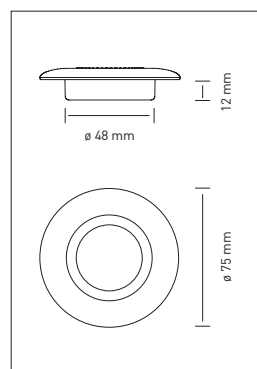
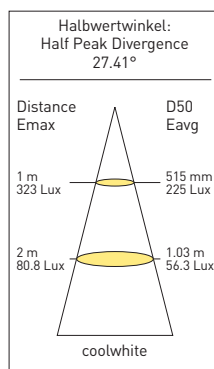
Typ	Switch	Housing Color	Order No.	
<b>F-19 LED 6 Watt Recessed</b>				
	F-19 basic module recessed 10-30 Volt/DC warmwhite	no	6815	
	F-19 basic module recessed 10-30 Volt/DC warmwhite Signaldim	no	6816	
	F-19 basic module recessed 10-30 Volt/DC coolwhite	no	6820	
	F-19 basic module recessed 10-30 Volt/DC coolwhite Signaldim	no	6821	
	<b>F-19 LED 6 Watt dimmable + Nightlight Recessed</b>			
	F-19 basic module recessed 10-30 Volt/DC warmwhite dim./red	no	6817	
	F-19 basic module recessed 10-30 Volt/DC coolwhite dim./red	no	6822	
	F-19 basic module recessed 10-30 Volt/DC warmwhite dim./blue	no	6818	
	F-19 basic module recessed 10-30 Volt/DC coolwhite dim./blue	no	6823	
	F-19 basic module recessed 10-30 Volt/DC warmwhite dim./green	no	6819	
F-19 basic module recessed 10-30 Volt/DC coolwhite dim./green	no	6824		
Dimmable and dimmable/ Nightlight F-19 modules work via third line on ground (Nightlight) or to dimmer R-570.				
<b>F-19 Mini Trim ring quattro</b>				
	F-19 Trim ring quattro Polycarbonate	no	white 6802	
	F-19 Trim ring quattro Polycarbonate	no	black 6803	
	F-19 Trim ring quattro Polycarbonate	no	grey 6804	
	F-19 Trim ring quattro Polycarbonate	no	chrome 6805	
	F-19 Trim ring quattro Polycarbonate	no	titanium 6806	

# F-19Mini

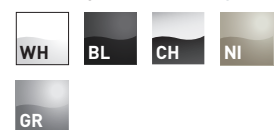


F-19 Mini kaltweiß | Dekorring schwarz  
F-19 Mini coolwhite | Trim ring black

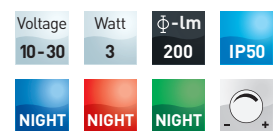
Gehäuse   Housing	Polycarbonat   Polycarbonate
Befestigung   Mounting	Edelstahl Schrauben   Stainless Steel Screws
Lichtquelle   Light source	1 High Power LED warm- oder kaltweiß, rot, blau, 2 Side LED 1 High Power LED warm- or coolwhite, red, blue, 2 Side LED
Schalter   Switch	nein   no
Dimmbar   Dimmable	ja, via externes PWM Signal   yes, via external PWM signal
Klasse   Class	II
Besonderheiten   Features	Nachtlicht via 2.+Leitung   Nightlight via 2 positive line
Artikelnr.   Part Number	siehe Seite 70   see Page 70



### Dekorringfarben | Trim ring colors



### Technische Daten | Technical Data



Dekorring bitte separat bestellen.  
Trim ring has to be ordered separate.



F-19 Mini kaltweiß | Dekorring chrom  
F-19 Mini coolwhite | Trim ring chrome



F-19 Mini kaltweiß | Dekorring weiß  
F-19 Mini coolwhite | Trim ring white



F-19 Mini warmweiß | Dekorring nickel  
F-19 Mini warmwhite | Trim ring nickel



F-19 Mini warmweiß | Dekorring grau  
F-19 Mini warmwhite | Trim ring grey



F-19 Mini blau | Dekorring chrom  
F-19 Mini blue | Trim ring chrome





F-19 Mini rot | Dekorring weiß  
F-19 Mini red | Trim ring white



F-19 Mini Nachtlicht blau | Dekorring weiß  
F-19 Mini Nightlight blue | Trim ring white

# F-19Mini

Typ	Switch	Housing Color	Order No.	
<b>F-19 Mini LED 3 Watt Recessed</b>				
	F-19 Mini basic module 10-30 Volt/DC warmwhite	no	8201	
	F-19 Mini basic module 10-30 Volt/DC warmwhite Powerdim (2 wire)	no	8220	
	F-19 Mini basic module 10-30 Volt/DC warmwhite Signaldim (3 wire)	no	8222	
	F-19 Mini basic module 10-30 Volt/DC warmwhite/blue	no	8252	
	F-19 Mini basic module 10-30 Volt/DC warmwhite/red	no	8250	
	F-19 Mini basic module 10-30 Volt/DC warmwhite/green	no	8251	
	F-19 Mini basic module 10-30 Volt/DC coolwhite	no	8202	
	F-19 Mini basic module 10-30 Volt/DC coolwhite Powerdim (2 wire)	no	8224	
	F-19 Mini basic module 10-30 Volt/DC coolwhite Signaldim (3 wire)	no	8226	
	F-19 Mini basic module 10-30 Volt/DC coolwhite/blue	no	8255	
	F-19 Mini basic module 10-30 Volt/DC coolwhite/red	no	8253	
	F-19 Mini basic module 10-30 Volt/DC coolwhite/green	no	8254	
	F-19 Mini basic module 10-30 Volt/DC red	no	8210	
	F-19 Mini basic module 10-30 Volt/DC blue	no	8212	
<b>F-19 Mini Trim ring round</b>				
	F-19 Mini Trim ring round Polycarbonate	no	chrome	5328
	F-19 Mini Trim ring round Polycarbonate	no	black	5329
	F-19 Mini Trim ring round Polycarbonate	no	white	5330
	F-19 Mini Trim ring round Polycarbonate	no	nickel	5331
	F-19 Mini Trim ring round Polycarbonate	no	grey	6070

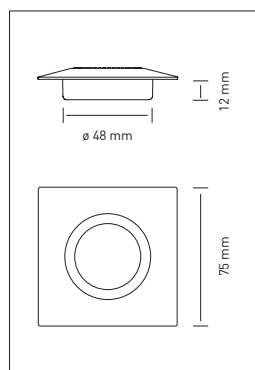
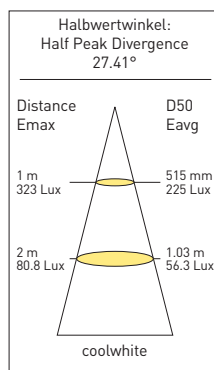
# F-19Mini Quattro



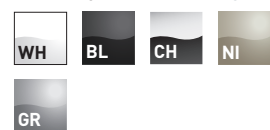
F-19 Quattro

F-19 Mini kaltweiß I Dekorring schwarz  
F-19 Mini coolwhite I Trim ring black

Gehäuse I Housing	Polycarbonat I Polycarbonate
Befestigung I Mounting	Federn oder Schrauben I Spring or screw
Lichtquelle I Light source	1 High Power LED warm- oder kaltweiß, rot, blau, 2 Side LED 1 High Power LED warm- or coolwhite, red, blue, 2 Side LED
Schalter I Switch	nein I no
Dimmbar I Dimmable	ja, via externes PWM Signal I yes, via external PWM signal
Klasse I Class	VF
Besonderheiten I Features	Nachtlicht via 2.+Leitung I Nightlight via 2 positive line
Artikelnr. I Part Number	siehe Seite 70 I see Page 70



## Dekorringfarben I Trim ring colors



## Technische Daten I Technical Data

Voltage	Watt	Φ - lm	IP
10-30	3	200	IP50

Dekorring bitte separat bestellen  
Trim ring has to be ordered separate



F-19 Quattro

F-19 Mini kaltweiß I Dekorring chrom  
F-19 Mini coolwhite I Trim ring chrome



F-19 Quattro

F-19 Mini kaltweiß I Dekorring weiß  
F-19 Mini coolwhite I Trim ring white



F-19 Quattro

F-19 Mini warmweiß I Dekorring nickel  
F-19 Mini warmwhite I Trim ring nickel



F-19 Quattro

F-19 Mini warmweiß I Dekorring grau  
F-19 Mini warmwhite I Trim ring grey



F-19 Mini blau I Dekorring chrom  
F-19 Mini blue I Trim ring chrome





F-19 Mini rot I Dekorring weiß  
F-19 Mini red I Trim ring white



F-19 Mini Nachtlicht blau I Dekorring weiß  
F-19 Mini Nightlight blue I Trim ring white

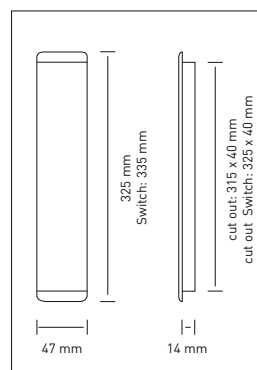
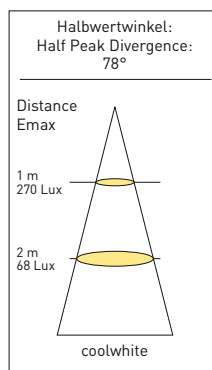
# F-19Mini

Typ	Switch	Housing Color	Order No.	
<b>F-19 Mini LED 3 Watt Recessed</b>				
	F-19 Mini basic module 10-30 Volt/DC warmwhite	no	8201	
	F-19 Mini basic module 10-30 Volt/DC warmwhite Powerdim (2 wire)	no	8220	
	F-19 Mini basic module 10-30 Volt/DC warmwhite Signaldim (3 wire)	no	8222	
	F-19 Mini basic module 10-30 Volt/DC warmwhite/blue	no	8252	
	F-19 Mini basic module 10-30 Volt/DC warmwhite/red	no	8250	
	F-19 Mini basic module 10-30 Volt/DC warmwhite/green	no	8251	
	F-19 Mini basic module 10-30 Volt/DC coolwhite	no	8202	
	F-19 Mini basic module 10-30 Volt/DC coolwhite Powerdim (2 wire)	no	8224	
	F-19 Mini basic module 10-30 Volt/DC coolwhite Signaldim (3 wire)	no	8226	
	F-19 Mini basic module 10-30 Volt/DC coolwhite/blue	no	8255	
	F-19 Mini basic module 10-30 Volt/DC coolwhite/red	no	8253	
	F-19 Mini basic module 10-30 Volt/DC coolwhite/green	no	8254	
	F-19 Mini basic module 10-30 Volt/DC red	no	8210	
	F-19 Mini basic module 10-30 Volt/DC blue	no	8212	
<b>F-19 Mini Trim ring quattro</b>				
	F-19 Mini Trim ring quattro Polycarbonate	no	chrome	5951
	F-19 Mini Trim ring quattro Polycarbonate	no	black	5953
	F-19 Mini Trim ring quattro Polycarbonate	no	white	5952
	F-19 Mini Trim ring quattro Polycarbonate	no	nickel	5954

# R-815



Gehäuse   Housing	Aluminium mit ABS-Endkappen   Aluminum with ABS end caps
Befestigung   Mounting	Klemmen   Snap in
Lichtquelle   Light source	30 SMD LED, warm- oder kaltweiß   warm- or coolwhite
Schalter   Switch	ja/nein   yes/no
Dimmbar   Dimmable	nein   no
Klasse   Class	
Besonderheiten   Features	
Artikelnr.   Part Number	siehe nächste Seite   see next Page



Farben | Colors



Technische Daten | Technical Data

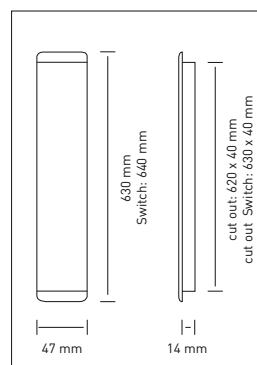
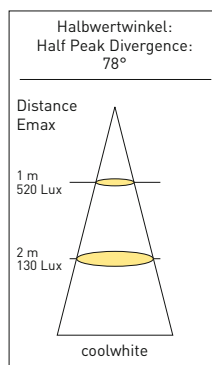
Voltage	Watt	$\Phi$ -lm
12   24	8	500



# R-815-2



Gehäuse   Housing	Aluminium mit ABS-Endkappen   Aluminum with ABS end caps
Befestigung   Mounting	Klemmen   Snap in
Lichtquelle   Light source	60 SMD LED, warm- oder kaltweiß   warm- or coolwhite
Schalter   Switch	ja/nein   yes/no
Dimmbar   Dimmable	nein   no
Klasse   Class	
Besonderheiten   Features	
Artikelnr.   Part Number	siehe nächste Seite   see next Page



Farben | Colors





Technische Daten | Technical Data

Voltage	Watt	$\Phi$ -lm
12   24	16	1000



# R-815 und R-815-2

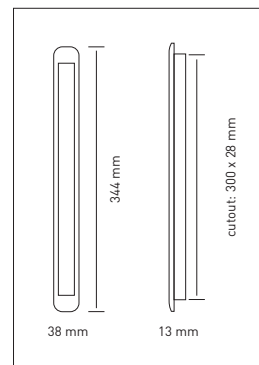
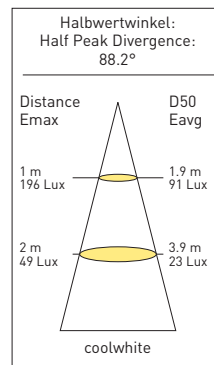
Typ		Switch	Housing Color	Order No.
	<b>R-815 LED 8 Watt 1 Modul 325 mm Recessed</b>			
	81512-005-W60K 12 Volt/DC coolwhite	no	white	6259
	81512-105-W60K 12 Volt/DC coolwhite	yes	white	6505
	81512-005-W30K 12 Volt/DC warmwhite	no	white	6263
	81512-105-W30K 12 Volt/DC warmwhite	yes	white	6506
	81524-005-W60K 24 Volt/DC coolwhite	no	white	6260
	81524-105-W60K 24 Volt/DC coolwhite	yes	white	6507
	81524-005-W30K 24 Volt/DC warmwhite	no	white	6264
	81524-105-W30K 24 Volt/DC warmwhite	yes	white	6508
	<b>R-815-2 LED 16 Watt 2 Module 630 mm Recessed</b>			
	81512-025-W60K 12 Volt/DC coolwhite	no	white	6692
	81512-125-W60K 12 Volt/DC coolwhite	yes	white	6829
	81512-025-W30K 12 Volt/DC warmwhite	no	white	6693
	81512-125-W30K 12 Volt/DC warmwhite	yes	white	6831
	81524-025-W60K 24 Volt/DC coolwhite	no	white	6694
	81524-125-W60K 24 Volt/DC coolwhite	yes	white	6829
	81524-025-W30K 24 Volt/DC warmwhite	no	white	6695
	81524-125-W30K 24 Volt/DC warmwhite	yes	white	6832

# F-20



Gehäuse   Housing	Polycarbonat   Polycarbonate
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	24 MidPower LED, warm oder kaltweiß   warm- or coolwhite
Schalter   Switch	ja (beleuchteter Touchsensor) / nein yes (illuminated Touchsensor) / no
Dimmbar   Dimmable	ja, via externes PWM Signal   yes, via external PWM signal
Klasse   Class	
Besonderheiten   Features	RGB+W Version erhältlich   RGB+W version available

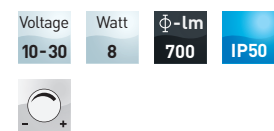
Dekorring in verschiedenen Farben erhältlich. Bitte separat bestellen.  
Trim ring in different colors available. Please order separately.



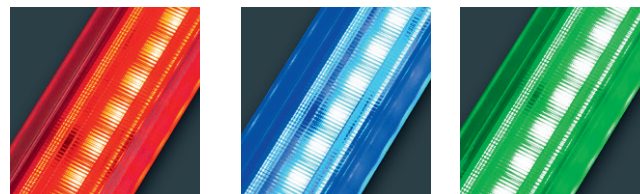
Dekorringfarben | Trim ring colors



Technische Daten | Technical Data



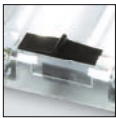
Auch als RGB+W Version lieferbar.  
Also available as RGB+W version.



Typ	Switch	Housing Color	Order No.	
<b>F-20 LED 8 Watt Recessed</b>				
	F-20 10-30 Volt/DC coolwhite	no	clear	7165
	F-20 10-30 Volt/DC coolwhite	TouchSensor	clear	7245
	F-20 10-30 Volt/DC warmwhite	no	clear	7174
	F-20 10-30 Volt/DC warmwhite	TouchSensor	clear	7246
	F-20 10-30 Volt/DC warmwhite Signaldim	no	clear	7173
	F-20 10-30 Volt/DC coolwhite Signaldim	no	clear	7164
	For all F-20 are trim rings in various colors as option available. Dimmable via third line with external dimmer R-570.			
	<b>F-20 Trim ring</b>			
F-20 Trim ring Polycarbonate	no	white	7193	
F-20 Trim ring Polycarbonate	no	black	7194	
F-20 Trim ring Polycarbonate	no	grey	7252	
F-20 Trim ring Polycarbonate	no	chrome	7197	
F-20 Trim ring Polycarbonate	no	chrome matt	7302	
F-20 Trim ring Polycarbonate	no	nickel	7196	

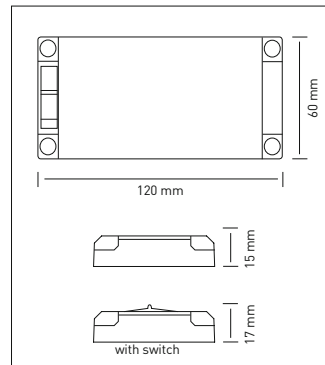
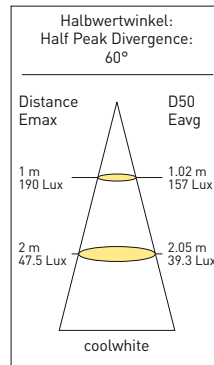


# F-70



Auch mit Magnet-schalter lieferbar. Also available with magnetic switch.

Gehäuse   Housing	Polycarbonat   Polycarbonate
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	24 MidPower LED, kaltweiß   coolwhite
Schalter   Switch	ja beleuchtet / nein   yes illuminated / no
Klasse   Class	⚡ ⚡
Dimmbar   Dimmable	nein   no
Besonderheiten   Features	



Farben | Colors



Technische Daten | Technical Data

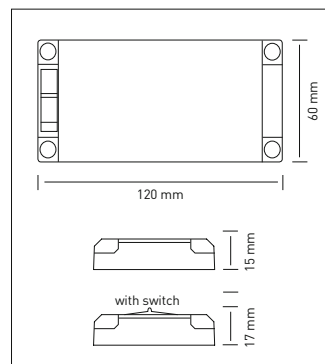
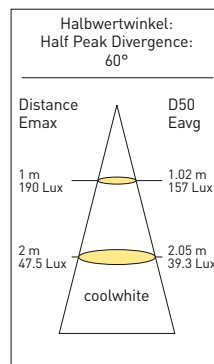
Voltage	Watt	Φ-Lm	IP
12 24	5	400	IP57

# F-70 Heavy Duty



Auch mit Magnet-schalter lieferbar. Also available with magnetic switch.

Gehäuse   Housing	Polycarbonat HT   Polycarbonate HT
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	24 MidPower LED, kaltweiß   coolwhite
Schalter   Switch	ja beleuchtet / nein   yes illuminated / no
Klasse   Class	⚡ ⚡
Dimmbar   Dimmable	nein   no
Besonderheiten   Features	erweiterter Temperaturbereich -40 – +100 °C, 3 m. Anschlussleitung extended temperature range -40 – +100 °C, 3 m. connecting cord



Farben | Colors



Technische Daten | Technical Data

Voltage	Watt	Φ-Lm	IP
12 24	5	400	IP67

Typ	Switch	Housing Color	Order No.	
<b>F-70 Standard</b>				
	F-70 12 24 Volt/DC coolwhite	yes illuminated	clear	0518
	F-70 12 24 Volt/DC coolwhite	no	clear	0519
<b>F-70 Heavy Duty</b>				
	F-70 HD 12 24 Volt/DC coolwhite	yes illuminated	clear	0516
	F-70 HD 12 24 Volt/DC coolwhite	no	clear	0517

## SERIE F-110



F-110.1



F-110.2



F-110.3



Wasserdichter Kabelanschluss  
Waterproof cable connector



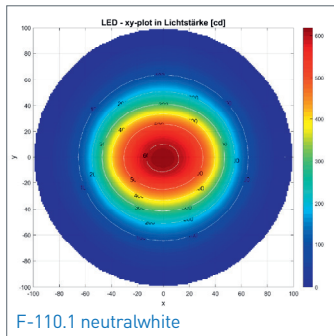
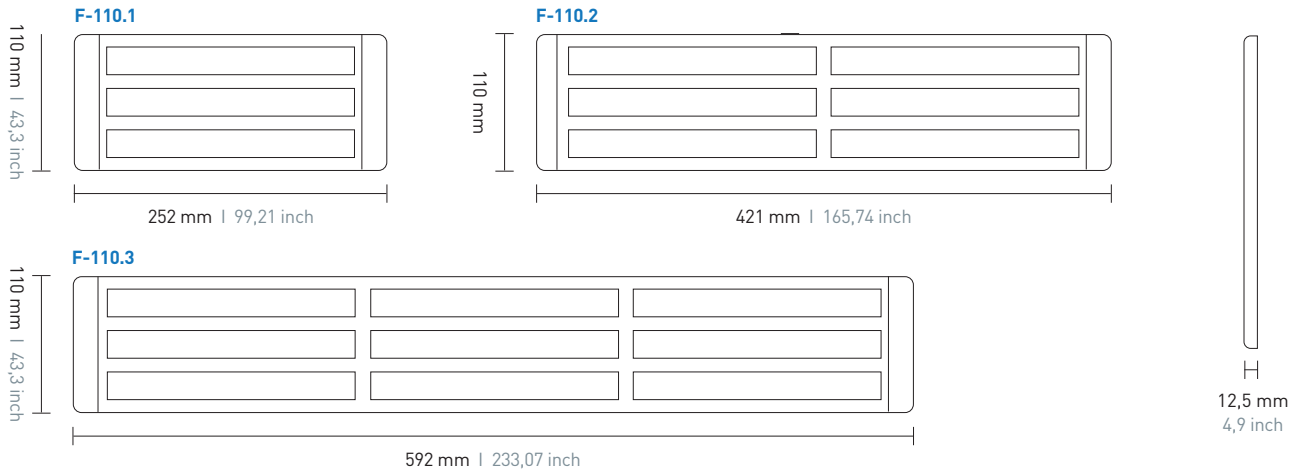
Verbindungsmöglichkeit  
Connecting option



Abdeckung für Lichtband  
Cover for lightband

### Technische Daten | Technical Data

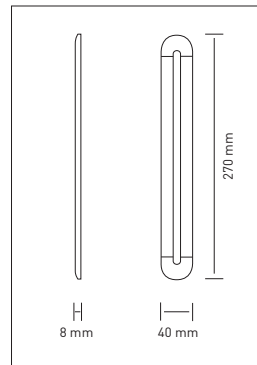
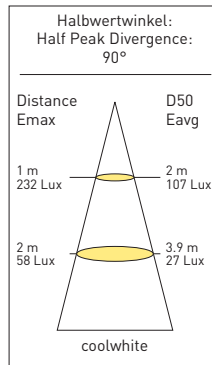
Typ	F-110.1	F-110.2	F-110.3
Spannung   Voltage	12 + 24 Volt	12 + 24 Volt	12 + 24 Volt
Spannungsbereich   Voltage range	11,6 – 16 V   22 – 28 V	11,6 – 16 V   22 – 28 V	11,6 – 16 V   22 – 28 V
Leistung   Power consumption	14 W	28 W	41 W
Lichtstrom   Luminous flux	ca. 1.500 Lm	ca. 3.000 Lm	ca. 4.500 Lm
Temperaturbereich   Temperature range	-30° – +60°C   -22° – +140°F	-30° – +60°C   -22° – +140°F	-30° – +60°C   -22° – +140°F
Abmessungen   Dimension	252 x 110 x 12,5 mm	421 x 110 x 12,5 mm	592 x 110 x 12,5 mm
Gewicht   weight	370 gramm	650 gramm	950 gramm
Schutzart   Protection class	IP67		
Lichtfarbe   Light color	neutral- oder kaltweiß   neutral- or coolwhite (ca. 4.000 K, 5.700 K)		
CRI (Color Rendering Index)	> 80		
Lebensdauer   Lifetime	> 50.000 Stunden/L70   hours/L70		
Dimmbar   Dimmable	nein   no		
Gehäuse   Housing	Aluminium eloxiert, PC   Aluminum anodized, PC		
Anschlusskabel   Connecting Cord	separat erhältlich in 1–5 mtr.   available separately in 393,70 – 1968,50 inch		
Besonderheiten   Features	erweiterbar zu einem Lichtband über Connector   expandable to a light band via connector		



Typ	Housing Color	Order No.
<b>F-110.1 - 252 mm</b>		
F-110.1 12 Volt/DC 14 W coolwhite IP67	aluminum/grey	1300
F-110.1 24 Volt/DC 14 W coolwhite IP67	aluminum/grey	1301
F-110.1 12 Volt/DC 14 W neutralwhite IP67	aluminum/grey	1302
F-110.1 24 Volt/DC 14 W neutralwhite IP67	aluminum/grey	1303
<b>F-110.2 - 434 mm</b>		
F-110.2 12 Volt/DC 28 W coolwhite IP67	aluminum/grey	1308
F-110.2 24 Volt/DC 28 W coolwhite IP67	aluminum/grey	1309
F-110.2 12 Volt/DC 28 W neutralwhite IP67	aluminum/grey	1310
F-110.2 24 Volt/DC 28 W neutralwhite IP67	aluminum/grey	1311
<b>F-110.3 - 631 mm</b>		
F-110.3 12 Volt/DC 41 W coolwhite IP67	aluminum/grey	1315
F-110.3 24 Volt/DC 41 W coolwhite IP67	aluminum/grey	1316
F-110.3 12 Volt/DC 41 W neutralwhite IP67	aluminum/grey	1317
F-110.3 24 Volt/DC 41 W neutralwhite IP67	aluminum/grey	1318
<b>Connection cord and accessories</b>		
F-110 Connecting cord 1.000 mm   393,70 inch	grey	1326
F-110 Connecting cord 2.000 mm   787,40 inch	grey	1327
F-110 Connecting cord 3.000 mm   1181,10 inch	grey	1328
F-110 Connecting cord 4.000 mm   1574,80 inch	grey	1329
F-110 Connecting cord 5.000 mm   1968,50 inch	grey	1330
F-110 Connector for lightband	grey	1344



Gehäuse   Housing	Polycarbonat   Polycarbonate
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	24 MidPower LED, warm- oder kaltweiß   warm- or coolwhite
Schalter   Switch	ja/nein   yes/no
Dimmbar   Dimmable	nein   no
Klasse   Class	VF
Besonderheiten   Features	beleuchteter Touchsensor-Schalter Illuminated Touchsensor switch



### Farben | Colors



### Technische Daten | Technical Data

Voltage	Watt	Φ - lm	IP67
10-30	8	600	IP67

Typ	Switch	Housing Color	Order No.
<b>F-22 LED 8 Watt Surface mount</b>			
F-22 10-30 Volt/DC coolwhite	no	clear/white	7319
F-22 10-30 Volt/DC coolwhite	TouchSensor	clear/white	7321
F-22 10-30 Volt/DC warmwhite	no	clear/white	7320
F-22 10-30 Volt/DC warmwhite	TouchSensor	clear/white	7322
<b>F-22 LED 8 Watt Nightlight Surface mount</b>			
F-22 10-30 Volt/DC coolwhite/red	no	clear/white	7324
F-22 10-30 Volt/DC coolwhite/red	TouchSensor	clear/white	7326
F-22 10-30 Volt/DC coolwhite/blue	no	clear/white	7323
F-22 10-30 Volt/DC coolwhite/blue	TouchSensor	clear/white	7327
F-22 10-30 Volt/DC coolwhite/green	no	clear/white	7325
F-22 10-30 Volt/DC coolwhite/green	TouchSensor	clear/white	7328
F-22 10-30 Volt/DC warmwhite/red	no	clear/white	7329
F-22 10-30 Volt/DC warmwhite/red	TouchSensor	clear/white	7333
F-22 10-30 Volt/DC warmwhite/blue	no	clear/white	7330
F-22 10-30 Volt/DC warmwhite/blue	TouchSensor	clear/white	7334
F-22 10-30 Volt/DC warmwhite/green	no	clear/white	7331
F-22 10-30 Volt/DC warmwhite/green	TouchSensor	clear/white	7335
F-22 Nightlight connection via third positive line.			
<b>F-22 LED 8 Watt Doubletouch Nightlight Surface mount</b>			
F-22 DT 10-30 Volt/DC coolwhite/red	2x TouchSensor	clear/white	7366
F-22 DT 10-30 Volt/DC coolwhite/blue	2x TouchSensor	clear/white	7367
F-22 DT 10-30 Volt/DC coolwhite/green	2x TouchSensor	clear/white	7368
F-22 DT 10-30 Volt/DC warmwhite/red	2x TouchSensor	clear/white	7353
F-22 DT 10-30 Volt/DC warmwhite/blue	2x TouchSensor	clear/white	7354
F-22 DT 10-30 Volt/DC warmwhite/green	2x TouchSensor	clear/white	7355
F-22 DT with 2 TouchSensor = 1 for white main light and 1 for Nightlight. Connecting via two (+/-) wires.			

# F-28



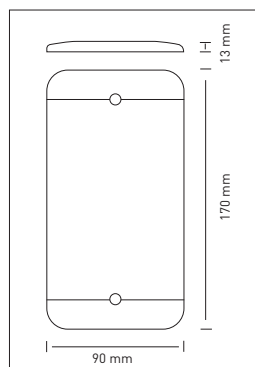
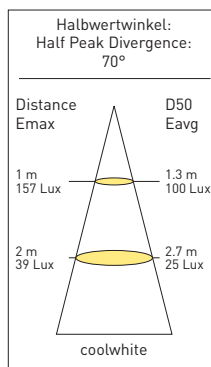
Gehäuse   Housing	Polycarbonat   Polycarbonate
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	28 MidPower LED, warm- oder kaltweiß 28 MidPower LED, warm- or coolwhite
Schalter   Switch	nein oder Touchsensor   no or Touchsensor
Dimmbar   Dimmable	auf Anfrage   on request
Klasse   Class	VF
Besonderheiten   Features	Doppel-Touchsensor bei Nachtlit-Verion Double-Touchsensor by Nightlight-Version Zulassung in USA, explosionsgeschützt Ignition protected, ISO 8846/NMMA



F-28 mit Nachtlit grün  
with nightlight green



F-28 Touchsensor beleuchtet  
Touchsensor illuminated



### Farben | Colors



### Technische Daten | Technical Data

Voltage	Watt	Φ-lm	IP67	Ex
10-30	7	500		

NIGHT NIGHT NIGHT

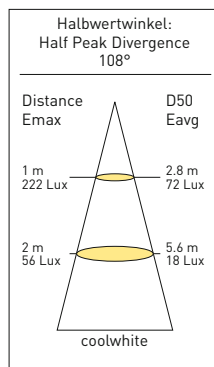
Typ	Switch	Housing Color	Order No.
<b>F-28 LED 7 Watt Surface mount</b>			
F-28 10-30 Volt/DC LED coolwhite	no	clear	8040
F-28 10-30 Volt/DC LED coolwhite	TouchSensor	clear	8041
F-28 10-30 Volt/DC LED warmwhite	no	clear	8050
F-28 10-30 Volt/DC LED warmwhite	TouchSensor	clear	8051
F-28 10-30 Volt/DC LED red	no	clear	8036
F-28 10-30 Volt/DC LED blue	no	clear	8037
F-28 10-30 Volt/DC LED green	no	clear	8038
<b>F-28 LED 7 Watt Nightlight red Surface mount</b>			
F-28 10-30 Volt/DC LED coolwhite/red	no	clear	8042
F-28 10-30 Volt/DC LED warmwhite/red	no	clear	8052
<b>F-28 LED 7 Watt Nightlight blue Surface mount</b>			
F-28 10-30 Volt/DC LED coolwhite/blue	no	clear	8043
F-28 10-30 Volt/DC LED warmwhite/blue	no	clear	8053
<b>F-28 LED 7 Watt Nightlight green Surface mount</b>			
F-28 10-30 Volt/DC LED coolwhite/green	no	clear	8044
F-28 10-30 Volt/DC LED warmwhite/green	no	clear	8054
F-28 Nightlight connection via third positive line.			
<b>F-28 LED 7 Watt Doubletouch Nightlight red Surface mount</b>			
F-28 10-30 Volt/DC LED coolwhite/red	2x TouchSensor	clear	8045
F-28 10-30 Volt/DC LED warmwhite red	2x TouchSensor	clear	8055
<b>F-28 LED 7 Watt Doubletouch Nightlight blue Surface mount</b>			
F-28 10-30 Volt/DC LED coolwhite/blue	2x TouchSensor	clear	8046
F-28 10-30 Volt/DC LED warmwhite/blue	2x TouchSensor	clear	8056
<b>F-28 LED 7 Watt Doubletouch Nightlight green Surface mount</b>			
F-28 10-30 Volt/DC LED coolwhite/green	2x TouchSensor	clear	8047
F-28 10-30 Volt/DC LED warmwhite/green	2x TouchSensor	clear	8057

# F-30 LED Stream

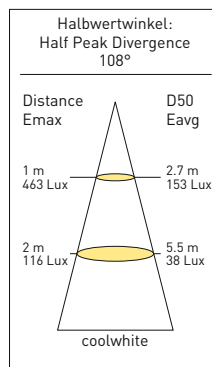


Gehäuse   Housing	Aluminium eloxiert, Polycarbonat Aluminum anodized, polycarbonate
Befestigung   Mounting	Edelstahl Schrauben   Stainless Steel Screws
Lichtquelle   Light source	36/72/108/144 MidPowerLED, warm- and coolwhite
Schalter   Switch	ja/nein   yes/no
Dimmbar   Dimmable	ja, via externes PWM Signal   yes, via external PWM signal
Klasse   Class	
Besonderheiten   Features	Sonderlängen bis 300 cm auf Anfrage Custom length up to 118 inch on request

### F-30.1



### F-30.2

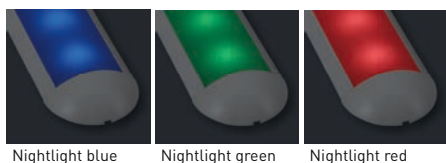


### Farben | Colors



### Technische Daten | Technical Data

Voltage	Watt	Watt	Watt	Watt
12   24	8	16	24	32
	$\Phi$ -lm 600	$\Phi$ -lm 1300	$\Phi$ -lm 1900	$\Phi$ -lm 2600

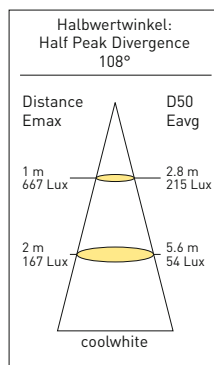


Nightlight blue

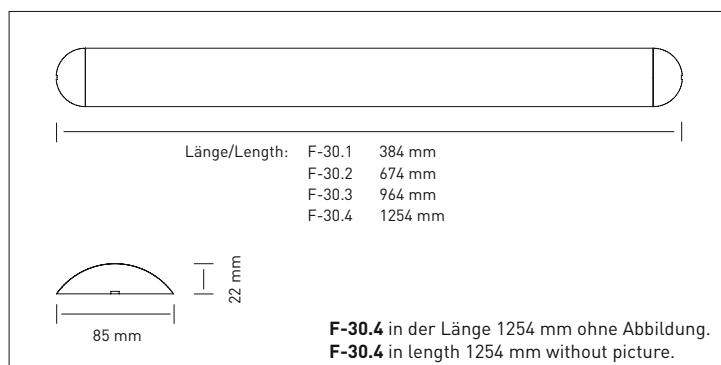
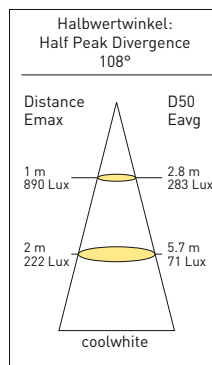
Nightlight green

Nightlight red


### F-30.3





### F-30.4





# F-30 LED Stream

Typ	Switch	Housing Color	Order No.	
<b>F-30.1 LED 8 Watt 384 mm Surface mount Powerdim</b>				
	F-30.1 12 Volt/DC coolwhite	no	white	0300
	F-30.1 12 Volt/DC coolwhite	yes	white	0302
	F-30.1 24 Volt/DC coolwhite	no	white	0304
	F-30.1 24 Volt/DC coolwhite	yes	white	0306
	F-30.1 12 Volt/DC warmwhite	no	white	0301
	F-30.1 12 Volt/DC warmwhite	yes	white	0303
	F-30.1 24 Volt/DC warmwhite	no	white	0305
	F-30.1 24 Volt/DC warmwhite	yes	white	0307
	F-30.1 12 Volt/DC coolwhite/RGB Nightlight	no	white	0308
	F-30.1 24 Volt/DC coolwhite/RGB Nightlight	no	white	0310
	F-30.1 12 Volt/DC warmwhite/RGB Nightlight	no	white	0309
	F-30.1 24 Volt/DC warmwhite/RGB Nightlight	no	white	0311
	<b>F-30.1 LED 2x 8 Watt Bi-color 384mm Surface mount Powerdim</b>			
	F-30.1 12 Volt/DC coolwhite/warmwhite	no	white	0312
F-30.1 24 Volt/DC coolwhite/warmwhite	no	white	0313	
F-30.1 12 Volt/DC coolwhite/warmwhite/RGB Nightlight	no	white	0314	
F-30.1 24 Volt/DC coolwhite/warmwhite/RGB Nightlight	no	white	0315	
Only one color in operation! Not both colors together. Caution! Overload.				
<b>F-30.2 LED 16 Watt 674 mm Surface mount Powerdim</b>				
F-30.2 12 Volt/DC coolwhite	no	white	0316	
F-30.2 12 Volt/DC coolwhite	yes	white	0318	
F-30.2 24 Volt/DC coolwhite	no	white	0320	
F-30.2 24 Volt/DC coolwhite	yes	white	0322	
F-30.2 12 Volt/DC warmwhite	no	white	0317	
F-30.2 12 Volt/DC warmwhite	yes	white	0319	
F-30.2 24 Volt/DC warmwhite	no	white	0321	
F-30.2 24 Volt/DC warmwhite	yes	white	0323	
F-30.2 12 Volt/DC coolwhite/RGB Nightlight	no	white	0324	
F-30.2 24 Volt/DC coolwhite/RGB Nightlight	no	white	0326	
F-30.2 12 Volt/DC warmwhite/RGB Nightlight	no	white	0325	
F-30.2 24 Volt/DC warmwhite/RGB Nightlight	no	white	0327	
<b>F-30.2 LED 2x 16 Watt Bi-color 674 mm Surface mount Powerdim</b>				
F-30.2 12 Volt/DC coolwhite/warmwhite	no	white	0328	
F-30.2 24 Volt/DC coolwhite/warmwhite	no	white	0329	
F-30.2 12 Volt/DC coolwhite warmwhite/RGB Nightlight	no	white	0330	
F-30.2 24 Volt/DC coolwhite/warmwhite/RGB Nightlight	no	white	0331	
Only one color in operation! Not both colors together. Caution! Overload.				
<b>F-30.3 LED 24 Watt 964 mm Surface mount Powerdim</b>				
F-30.3 12 Volt/DC coolwhite	no	white	0332	
F-30.3 12 Volt/DC coolwhite	yes	white	0334	
F-30.3 24 Volt/DC coolwhite	no	white	0336	
F-30.3 24 Volt/DC coolwhite	yes	white	0338	
F-30.3 12 Volt/DC warmwhite	no	white	0333	
F-30.3 12 Volt/DC warmwhite	yes	white	0335	
F-30.3 24 Volt/DC warmwhite	no	white	0337	
F-30.3 24 Volt/DC warmwhite	yes	white	0339	
F-30.3 12 Volt/DC coolwhite/RGB Nightlight	no	white	0340	
F-30.3 24 Volt/DC coolwhite/RGB Nightlight	no	white	0342	
F-30.3 12 Volt/DC warmwhite/RGB Nightlight	no	white	0341	
F-30.3 24 Volt/DC warmwhite/RGB Nightlight	no	white	0343	

# F-30 LED Stream

Typ	Switch	Housing Color	Order No.	
<b>F-30.3 LED 2x 24 Watt Bi-color 964 mm Surface mount Powerdim</b>				
	F-30.3 12 Volt/DC coolwhite/warmwhite	No	white	0344
	F-30.3 24 Volt/DC coolwhite/warmwhite	No	white	0345
	F-30.3 12 Volt/DC coolwhite/warmwhite/RGB Nightlight	No	white	0346
	F-30.3 24 Volt/DC coolwhite/warmwhite/RGB Nightlight	No	white	0347
<b>F-30.4 LED 32 Watt 1254 mm Surface mount Powerdim</b>				
	F-30.4 12 Volt/DC coolwhite	No	white	0348
	F-30.4 12 Volt/DC coolwhite	yes	white	0350
	F-30.4 24 Volt/DC coolwhite	No	white	0352
	F-30.4 24 Volt/DC coolwhite	yes	white	0354
	F-30.4 12 Volt/DC warmwhite	No	white	0349
	F-30.4 12 Volt/DC warmwhite	yes	white	0351
	F-30.4 24 Volt/DC warmwhite	No	white	0353
	F-30.4 24 Volt/DC warmwhite	yes	white	0355
	F-30.4 12 Volt/DC coolwhite/RGB Nightlight	No	white	0356
	F-30.4 24 Volt/DC coolwhite/RGB Nightlight	No	white	0358
	F-30.4 12 Volt/DC warmwhite/RGB Nightlight	No	white	0357
	F-30.4 24 Volt/DC warmwhite/RGB Nightlight	No	white	0359
	<b>F-30.4 LED 2x 32 Watt Bi-color 1254 mm Surface mount Powerdim</b>			
	F-30.4 12 Volt/DC coolwhite/warmwhite	No	white	0360
F-30.4 24 Volt/DC coolwhite/warmwhite	No	white	0361	
F-30.4 12 Volt/DC coolwhite/warmwhite/RGB Nightlight	No	white	0362	
F-30.4 24 Volt/DC coolwhite/warmwhite/RGB Nightlight	No	white	0363	
Only one color in operation! Not both colors together. Caution! Overload.				
All F-30 are dimmable via external PWM signal on power line.				

# R-805 und R-805-2

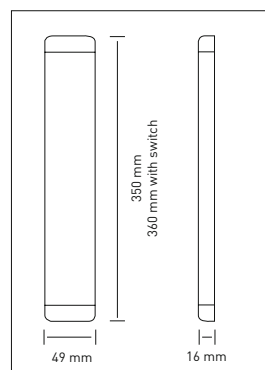
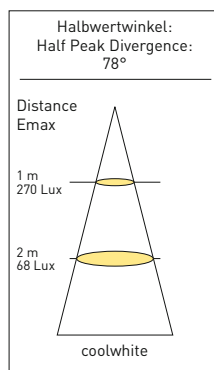
Typ	Switch	Housing Color	Order No.	
<b>R-805 LED 8 Watt 1 Modul 365 mm Surface mount</b>				
	80512-005-W60K 12 Volt/DC coolwhite	no	white	6257
	80512-105-W60K 12 Volt/DC coolwhite	yes	white	6501
	80512-005-W30K 12 Volt/DC warmwhite	no	white	6261
	80512-105-W30K 12 Volt/DC warmwhite	yes	white	6502
	80524-005-W60K 24 Volt/DC coolwhite	no	white	6258
	80524-105-W60K 24 Volt/DC coolwhite	yes	white	6503
	80524-005-W30K 24 Volt/DC warmwhite	no	white	6262
	80524-105-W30K 24 Volt/DC warmwhite	yes	white	6504
<b>R-805-2 LED 16 Watt 2 Module 670 mm Surface mount</b>				
	80512-025-W60K 12 Volt/DC coolwhite	no	white	6471
	80512-125-W60K 12 Volt/DC coolwhite	yes	white	6825
	80512-025-W30K 12 Volt/DC warmwhite	no	white	6690
	80512-125-W30K 12 Volt/DC warmwhite	yes	white	6827
	80524-025-W60K 24 Volt/DC coolwhite	no	white	6472
	80524-125-W60K 24 Volt/DC coolwhite	yes	white	6826
	80524-025-W30K 24 Volt/DC warmwhite	no	white	6688
	80524-125-W30K 24 Volt/DC warmwhite	yes	white	6828



# R-805



Gehäuse   Housing	Aluminium mit ABS-Endkappen   Aluminum with ABS end caps
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	30 SMD LED, warm- oder kaltweiß   warm- or coolwhite
Schalter   Switch	ja/nein   yes/no
Dimmbar   Dimmable	nein   no
Klasse   Class	
Besonderheiten   Features	
Artikelnr.   Part Number	siehe nächste Seite   see next Page



Farben | Colors



Technische Daten | Technical Data

Voltage	Watt	Φ-Lm
12   24	8	500

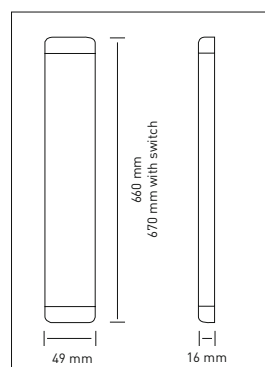
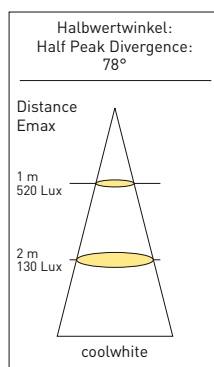


switch

# R-805-2



Gehäuse   Housing	Aluminium mit ABS-Endkappen   Aluminum with ABS end caps
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	60 SMD LED, warm- oder kaltweiß   warm- or coolwhite
Schalter   Switch	ja/nein   yes/no
Dimmbar   Dimmable	nein   no
Klasse   Class	
Besonderheiten   Features	
Artikelnr.   Part Number	siehe nächste Seite   see next Page



Farben | Colors



Technische Daten | Technical Data

Voltage	Watt	Φ-Lm
12   24	16	1000



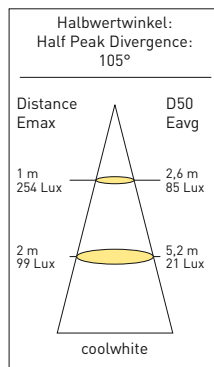
switch

# F-40 LED Line

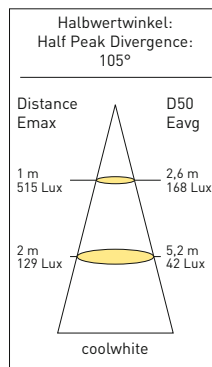


Gehäuse   Housing	Aluminium eloxiert, Polycarbonat Aluminum anodized, Polycarbonate
Befestigung   Mounting	Edelstahlschrauben   stainless steel Screw
Lichtquelle   Light source	42/84/126/168 MidPower LED, warm- or coolwhite
Schalter   Switch	ja/nein   yes/no
Dimmbar   Dimmable	nein   no
Klasse   Class	VF III
Besonderheiten   Features	Sonderlängen bis 3000 mm auf Anfrage, Dualvolt 12 + 24 Vdc Custom length up to 3000 mm on request, Dualvolt 12 + 24 Vdc

### F-40.1



### F-40.2

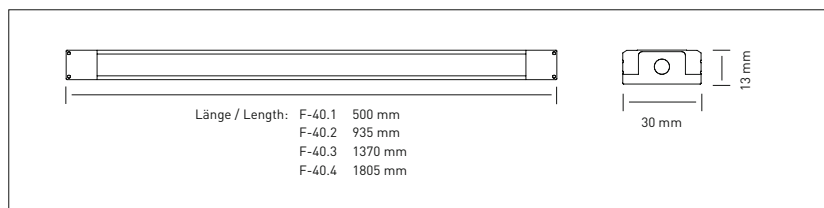


### Farben | Colors



### Technische Daten | Technical Data

V-Dual	IP50		
12+24			
Watt	Watt	Watt	Watt
9	18	27	36
Φ-lm	Φ-lm	Φ-lm	Φ-lm
700	1400	2100	2800



Typ	Switch	Housing Color	Order No.
<b>F-40.1 LED 9 Watt 500 mm Surface mount</b>			
F-40.1 12+24 Volt/DC coolwhite	no	anodized/black	4001
F-40.1 12+24 Volt/DC coolwhite	Yes	anodized/black	4002
F-40.1 12+24 Volt/DC warmwhite	no	anodized/black	4003
F-40.1 12+24 Volt/DC warmwhite	Yes	anodized/black	4004
<b>F-40.2 LED 18 Watt 935 mm Surface mount</b>			
F-40.2 12+24 Volt/DC coolwhite	no	anodized/black	4008
F-40.2 12+24 Volt/DC coolwhite	Yes	anodized/black	4009
F-40.2 12+24 Volt/DC warmwhite	no	anodized/black	4010
F-40.2 12+24 Volt/DC warmwhite	Yes	anodized/black	4011
<b>F-40.3 LED 27 Watt 1370 mm Surface mount</b>			
F-40.3 12+24 Volt/DC coolwhite	no	anodized/black	4015
F-40.3 12+24 Volt/DC coolwhite	Yes	anodized/black	4016
F-40.3 12+24 Volt/DC warmwhite	no	anodized/black	4017
F-40.3 12+24 Volt/DC warmwhite	Yes	anodized/black	4018
<b>F-40.4 LED 36 Watt 1805 mm Surface mount</b>			
F-40.4 12+24 Volt/DC coolwhite	no	anodized/black	4022
F-40.4 12+24 Volt/DC coolwhite	Yes	anodized/black	4023
F-40.4 12+24 Volt/DC warmwhite	no	anodized/black	4024
F-40.4 12+24 Volt/DC warmwhite	Yes	anodized/black	4025
F-40 Dualvolt: 11-16 and 17-29 Volt DC			

# F-90

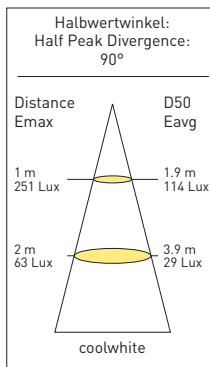


F-90



F-90

Gehäuse   Housing	Polycarbonat   Polycarbonate
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	30 MidPower LED, warm- oder kaltweiß   warm- or coolwhite
Schalter   Switch	ja/nein   yes/no
Dimmbar   Dimmable	nein   no
Klasse   Class	II
Besonderheiten   Features	

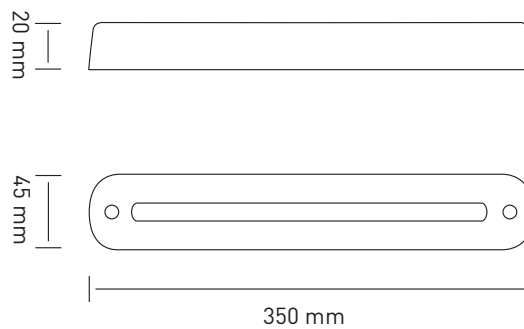


### Farben | Colors



### Technische Daten | Technical Data

V-Dual	Watt	Φ-lm	IP50
12+24	7	550	



	F-90 Dualvolt 12 24V DC	Switch	Housing Color	Order No.
	F-90 coolwhite 12 24 Volt DC	no	white	0620
	F-90 warmwhite 12 24 Volt DC	no	white	0622
	F-90 coolwhite 12 24 Volt DC	yes	white	0624
	F-90 warmwhite 12 24 Volt DC	yes	white	0626

# F-100



Gehäuse   Housing	Aluminium / Polycarbonat   Aluminum / Polycarbonate
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	24/48/72/96 MidPower LED, warm- und kaltweiß, rot, grün, blau 24/48/72/96 MidPower LED, warm- and coolwhite red, green, blue
Schalter   Switch	nein   no
Dimmbar   Dimmable	nein   no
Klasse   Class	
Besonderheiten   Features	Anschlussleitung 1500 mm   Connection cord 1500 mm
Artikelnr.   Part Number	siehe Seite 78-79   see Page 79-79

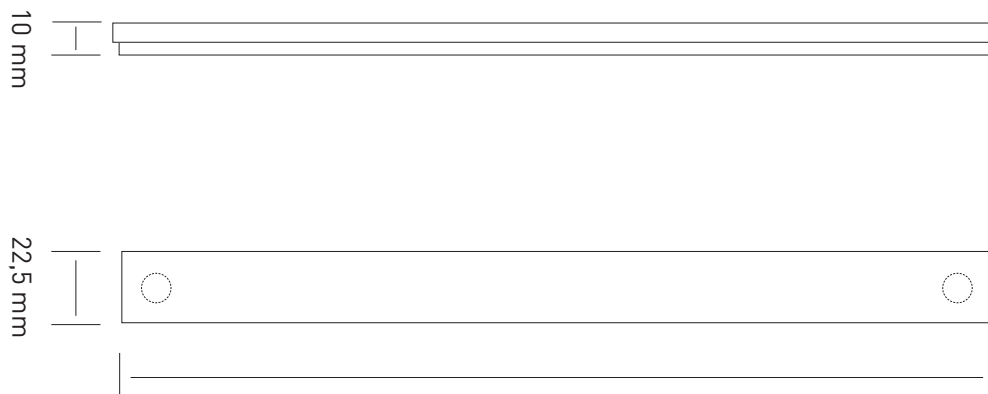


### Farben | Colors



### Technische Daten | Technical Data

V-Dual	Watt	Watt	Watt	Watt
12+24	6	12	18	24
IP50	Φ-Lm 400	Φ-Lm 800	Φ-Lm 1200	Φ-Lm 1600



- F-100.1 = 500 mm
- F-100.2 = 955 mm
- F-100.3 = 1410 mm
- F-100.4 = 1865 mm

	F-100 Standard with cover IP 50 Singlevolt - 500 mm	Switch	Housing Color	Order No.	
	F-100.1 coolwhite 12VDC 6 Watt - 500 mm with cover IP50	no	anodized/white	0104	
	F-100.1 coolwhite 24VDC 6 Watt - 500 mm with cover IP50	no	anodized/white	0105	
	F-100.1 warmwhite 12VDC 6 Watt - 500 mm with cover IP50	no	anodized/white	0106	
	F-100.1 warmwhite 24VDC 6 Watt - 500 mm with cover IP50	no	anodized/white	0107	
	F-100.1 rot 12VDC 6 Watt - 500 mm with cover IP50	no	anodized/white	0108	
	F-100.1 rot 24VDC 6 Watt - 500 mm with cover IP50	no	anodized/white	0109	
	F-100.1 grün 12VDC 6 Watt - 500 mm with cover IP50	no	anodized/white	0110	
	F-100.1 grün 24VDC 6 Watt - 500 mm with cover IP50	no	anodized/white	0111	
	F-100.1 blau 12VDC 6 Watt - 500 mm with cover IP50	no	anodized/white	0112	
	F-100.1 blau 24VDC 6 Watt - 500 mm with cover IP50	no	anodized/white	0113	
	<b>F-100 Standard with cover IP 50 Singlevolt - 955 mm</b>				
	F-100.2 coolwhite 12VDC 12 Watt - 955 mm with cover IP50	no	anodized/white	0115	
	F-100.2 coolwhite 24VDC 12 Watt - 955 mm with cover IP50	no	anodized/white	0116	
	F-100.2 warmwhite 12VDC 12 Watt - 955 mm with cover IP50	no	anodized/white	0117	
	F-100.2 warmwhite 24VDC 12 Watt - 955 mm with cover IP50	no	anodized/white	0118	
	F-100.2 rot 12VDC 12 Watt - 955 mm with cover IP50	no	anodized/white	0119	
	F-100.2 rot 24VDC 12 Watt - 955 mm with cover IP50	no	anodized/white	0120	
	F-100.2 grün 12VDC 12 Watt - 955 mm with cover IP50	no	anodized/white	0121	
	F-100.2 grün 24VDC 12 Watt - 955 mm with cover IP50	no	anodized/white	0122	
	F-100.2 blau 12VDC 12 Watt - 955 mm with cover IP50	no	anodized/white	0123	
	F-100.2 blau 24VDC 12 Watt - 955 mm with cover IP50	no	anodized/white	0124	
	<b>F-100 Standard with cover IP 50 Singlevolt - 1410 mm</b>				
	F-100.3 coolwhite 12VDC 18 Watt - 1410 mm with cover IP50	no	anodized/white	0126	
	F-100.3 coolwhite 24VDC 18 Watt - 1410 mm with cover IP50	no	anodized/white	0127	
	F-100.3 warmwhite 12VDC 18 Watt - 1410 mm with cover IP50	no	anodized/white	0128	
	F-100.3 warmwhite 24VDC 18 Watt - 1410 mm with cover IP50	no	anodized/white	0129	
	F-100.3 rot 12VDC 18 Watt - 1410 mm with cover IP50	no	anodized/white	0130	
	F-100.3 rot 24VDC 18 Watt - 1410 mm with cover IP50	no	anodized/white	0131	
F-100.3 grün 12VDC 18 Watt - 1410 mm with cover IP50	no	anodized/white	0132		
F-100.3 grün 24VDC 18 Watt - 1410 mm with cover IP50	no	anodized/white	0133		
F-100.3 blau 12VDC 18 Watt - 1410 mm with cover IP50	no	anodized/white	0134		
F-100.3 blau 24VDC 18 Watt - 1410 mm with cover IP50	no	anodized/white	0135		
<b>F-100 Standard with cover IP 50 Singlevolt 1865 mm</b>					
F-100.4 coolwhite 12VDC 24 Watt - 1865 mm with cover IP50	no	anodized/white	0137		
F-100.4 coolwhite 24VDC 24 Watt - 1865 mm with cover IP50	no	anodized/white	0138		
F-100.4 warmwhite 12VDC 24 Watt - 1865 mm with cover IP50	no	anodized/white	0139		
F-100.4 warmwhite 24VDC 24 Watt - 1865 mm with cover IP50	no	anodized/white	0140		
F-100.4 rot 12VDC 24 Watt - 1865 mm with cover IP50	no	anodized/white	0141		
F-100.4 rot 24VDC 24 Watt - 1865 mm with cover IP50	no	anodized/white	0142		
F-100.4 grün 12VDC 24 Watt - 1865 mm with cover IP50	no	anodized/white	0143		
F-100.4 grün 24VDC 24 Watt - 1865 mm with cover IP50	no	anodized/white	0144		
F-100.4 blau 12VDC 24 Watt - 1865 mm with cover IP50	no	anodized/white	0145		
F-100.4 blau 24VDC 24 Watt - 1865 mm with cover IP50	no	anodized/white	0146		

# F-100 HEAVY DUTY



Gehäuse   Housing	Aluminium / Polycarbonat   Aluminum / Polycarbonate
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	24/48/72/96 MidPower LED, warm- und kaltweiß, rot, grün, blau 24/48/72/96 MidPower LED, warm- and coolwhite red, green, blue
Schalter   Switch	nein   no
Dimmbar   Dimmable	nein   no
Klasse   Class	⚡ ⚡
Besonderheiten   Features	Anschlussleitung 1500 mm   Connection cord 1500 mm
Artikelnr.   Part Number	siehe Seite 78-79   see Page 79-79

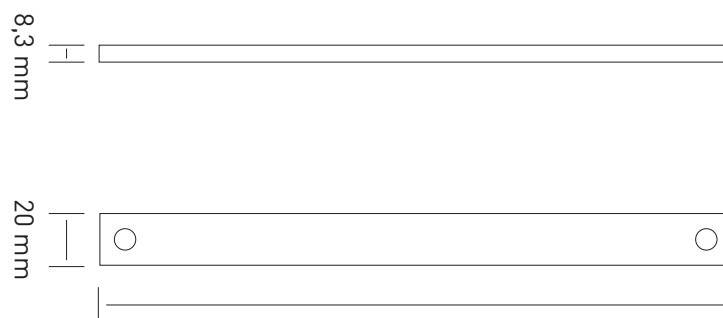


#### Farben | Colors



#### Technische Daten | Technical Data

V-Dual	Watt	Watt	Watt	Watt
12+24	6	12	18	24
IP67	Φ-lm	Φ-lm	Φ-lm	Φ-lm
	400	800	1200	1600



- F-100.1 = 500 mm
- F-100.2 = 955 mm
- F-100.3 = 1410 mm
- F-100.4 = 1865 mm

# F-100 HEAVY DUTY

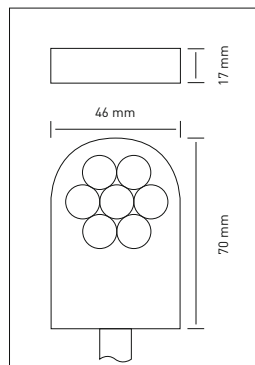
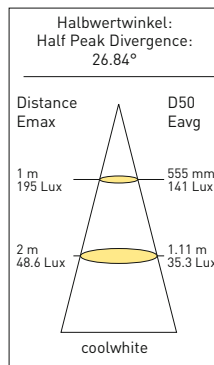
	<b>F-100 Heavy Duty vergossen IP 67 Singlevolt - 500 mm</b>	<b>Switch</b>	<b>Color</b>	<b>Order No.</b>	
	F-100.1 HD coolwhite 12VDC 6 Watt - 500 mm IP67	no	anodized	0148	
	F-100.1 HD coolwhite 24VDC 6 Watt - 500 mm IP67	no	anodized	0149	
	F-100.1 HD rot 12VDC 6 Watt - 500 mm IP67	no	anodized	0150	
	F-100.1 HD rot 24VDC 6 Watt - 500 mm IP67	no	anodized	0151	
	F-100.1 HD grün 12VDC 6 Watt - 500 mm IP67	no	anodized	0152	
	F-100.1 HD grün 24VDC 6 Watt - 500 mm IP67	no	anodized	0153	
	F-100.1 HD blau 12VDC 6 Watt - 500 mm IP67	no	anodized	0154	
	F-100.1 HD blau 24VDC 6 Watt - 500 mm IP67	no	anodized	0155	
	<b>F-100 Heavy Duty vergossen IP 67 Singlevolt - 955 mm</b>				
	F-100.2 HD coolwhite 12VDC 12 Watt - 955 mm IP67	no	anodized	0157	
	F-100.2 HD coolwhite 24VDC 12 Watt - 955 mm IP67	no	anodized	0158	
	F-100.2 HD rot 12VDC 12 Watt - 955 mm IP67	no	anodized	0159	
	F-100.2 HD rot 24VDC 12 Watt - 955 mm IP67	no	anodized	0160	
	F-100.2 HD grün 12VDC 12 Watt - 955 mm IP67	no	anodized	0161	
	F-100.2 HD grün 24VDC 12 Watt - 955 mm IP67	no	anodized	0162	
	F-100.2 HD blau 12VDC 12 Watt - 955 mm IP67	no	anodized	0163	
	F-100.2 HD blau 24VDC 12 Watt - 955 mm IP67	no	anodized	0164	
	<b>F-100 Heavy Duty vergossen IP 67 Singlevolt - 1410 mm</b>				
	F-100.3 HD coolwhite 12VDC 18 Watt - 1410 mm IP67	no	anodized	0166	
	F-100.3 HD coolwhite 24VDC 18 Watt - 1410 mm IP67	no	anodized	0167	
	F-100.3 HD rot 12VDC 18 Watt - 1410 mm IP67	no	anodized	0168	
	F-100.3 HD rot 24VDC 18 Watt - 1410 mm IP67	no	anodized	0169	
	F-100.3 HD grün 12VDC 18 Watt - 1410 mm IP67	no	anodized	0170	
	F-100.3 HD grün 24VDC 18 Watt - 1410 mm IP67	no	anodized	0171	
	F-100.3 HD blau 12VDC 18 Watt - 1410 mm IP67	no	anodized	0172	
	F-100.3 HD blau 24VDC 18 Watt - 1410 mm IP67	no	anodized	0173	
	<b>F-100 Heavy Duty vergossen IP 67 Singlevolt - 1865 mm</b>				
	F-100.4 HD coolwhite 12VDC 24 Watt - 1865 mm IP67	no	anodized	0175	
	F-100.4 HD coolwhite 24VDC 24 Watt - 1865 mm IP67	no	anodized	0176	
	F-100.4 HD rot 12VDC 24 Watt - 1865 mm IP67	no	anodized	0177	
	F-100.4 HD rot 24VDC 24 Watt - 1865 mm IP67	no	anodized	0178	
	F-100.4 HD grün 12VDC 24 Watt - 1865 mm IP67	no	anodized	0179	
	F-100.4 HD grün 24VDC 24 Watt - 1865 mm IP67	no	anodized	0180	
F-100.4 HD blau 12VDC 24 Watt - 1865 mm IP67	no	anodized	0181		
F-100.4 HD blau 24VDC 24 Watt - 1865 mm IP67	no	anodized	0182		

# F-26 TASK-LIGHT



Standard

Gehäuse   Housing	PC/ABS, Aluminium, Messing   PC/ABS, Aluminum, Brass
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	7 SMD LED, kaltweiß oder rot   coolwhite or red
Schalter   Switch	beleuchteter Touchsensor   illuminated Touchsensor
Dimmbar   Dimmable	nein   no
Klasse   Class	⚡ ⚠
Besonderheiten   Features	M=300 mm, L=500 mm

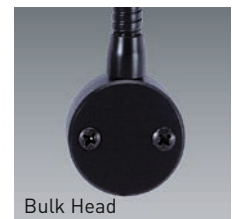


## Farben | Colors



## Technische Daten | Technical Data

Voltage	Watt	Φ-lm	IP50
10-30	2	75	IP50



Die **F-26 TaskLight**, mit ihrer neu konzipierten High-Precision-Optik, ist lieferbar in kaltweiß oder in rot. Schaltbar ist sie über die beleuchtete Touch-Funktion auf der Rückseite. Die mit komplett roten LEDs erhaltene Leuchte ist speziell für den Navigationsbereich gedacht.

The **F-26 TaskLight** with its newly designed optical systems is available with coolwhite or red LEDs. It is switchable via the illuminated Touchsensorfunction on the back of the lamp. The version with complete red LEDs was developed especially for navigation areas.

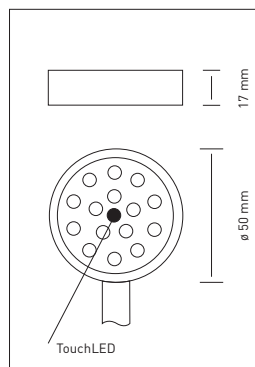
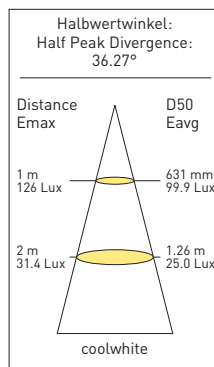
Typ	Switch	Housing Color	Order No.	
	<b>F-26 LED 2 Watt Task Light</b>			
	F-26 M 10-30 Volt/DC coolwhite	TouchSensor	black	8020
	F-26 M-BH 10-30 Volt/DC coolwhite	TouchSensor	black	8021
	F-26 L 10-30 Volt/DC coolwhite	TouchSensor	black	8022
	F-26 L-BH 10-30 Volt/DC coolwhite	TouchSensor	black	8023
	F-26 M 10-30 Volt/DC red	TouchSensor	black	8024
	F-26 M-BH 10-30 Volt/DC red	TouchSensor	black	8025
	F-26 L 10-30 Volt/DC red	TouchSensor	black	8026
F-26 L-BH 10-30 Volt/DC red	TouchSensor	black	8027	



# F-4 TASK-LIGHT



Gehäuse   Housing	Aluminium, Stahl   Aluminum, Steel
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	15x 5 mm LED kaltweiß   coolwhite, 1x 5 mm LED rot   red
Schalter   Switch	ja, per TouchLED   yes, via TouchLED
Dimmbar   Dimmable	nein   no
Klasse   Class	II
Besonderheiten   Features	M=300 mm, L=500 mm



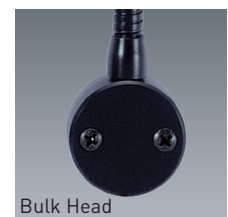
### Farben | Colors



### Technische Daten | Technical Data

Voltage	Watt	Φ-Lm	IP50
10-30	2	85	

NIGHT



### Alles nur durch Berührung

Eine leichte Berührung des roten LED-Sensor aktiviert die Leuchte und schaltet sie wieder aus. Die anderen 15 weißen LEDs sorgen, durch ihren flexiblen Schwanenhals, für viel Licht, genau dort wo sie es brauchen. Zudem ist die rote LED in der Mitte, nicht nur die EIN/AUS-Schalter, sondern hat auch eine Nachtlicht-Funktion, die sich in der Dunkelheit automatisch aktiviert. Damit kann die Leuchte auch in völliger Dunkelheit gut gefunden werden. Die Nachtlicht-funktion schaltet sich bei Tageslicht automatisch ab, kann aber auch manuell abgeschaltet werden. Hinzu kommt, da es keine mechanischen Schalter in der Leuchte gibt, das Funkenbildung und Abnutzung ausgeschlossen sind.

### Everything at your fingertips.

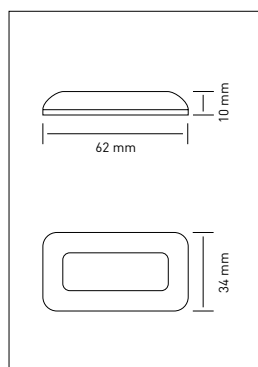
A soft touch of the red sensor LED activates the light source and switches it off again. The other 15 white LEDs provide plenty of bright light that can be directed exactly where you need it. However, the red LED in the center is not just the ON/OFF switch but also has a night light function which is automatically activated in the dark, meaning that the LED changes from glowing to full light so it can be easily located. The night light function deactivates automatically in daylight and can also be turned off manually at any time. What is more, since there are no mechanical switches inside the luminaire spark formation or mechanical wear and tear simply cannot occur.

Typ	Switch	Housing Color	Order No.	
	<b>F-4 TASK LIGHT TouchLED 2 Watt Surface mount</b>			
	F-4 M 10-30 Volt/DC coolwhite/red	TouchLED	black	6267
	F-4 M-BH 10-30 Volt/DC coolwhite/red	TouchLED	black	6272
F-4 L 10-30 Volt/DC coolwhite/red	TouchLED	black	6481	
F-4 L-BH 10-30 Volt/DC coolwhite/red	TouchLED	black	6275	

# F-5



Gehäuse   Housing	Polycarbonat   Polycarbonate
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	4 SMD LED, weiß, rot, blau   white, red, blue
Schalter   Switch	nein   no
Dimmbar   Dimmable	nein   no
Klasse   Class	VF
Besonderheiten   Features	



### Farben | Colors



### Technische Daten | Technical Data

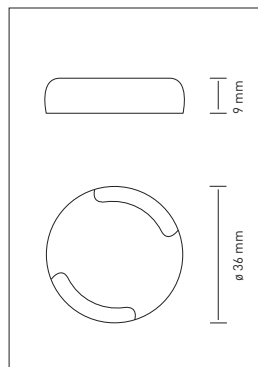
Voltage	Watt	Φ-lm	IP63
12   24	0,5	25	

Typ	Switch	Housing Color	Order No.
<b>F-5 LED 0,5 Watt Surface mount</b>			
F-5 12 Volt/DC LED white	no	white	5086
F-5 12 Volt/DC LED white	no	black	5087
F-5 12 Volt/DC LED white	no	chrom	5088
F-5 12 Volt/DC LED white	no	nickel	5090
F-5 24 Volt/DC LED white	no	white	5091
F-5 24 Volt/DC LED white	no	black	5092
F-5 24 Volt/DC LED white	no	chrom	5093
F-5 24 Volt/DC LED white	no	nickel	5095
F-5 12 Volt/DC LED red	no	white	5096
F-5 12 Volt/DC LED red	no	black	5097
F-5 12 Volt/DC LED red	no	chrom	5098
F-5 12 Volt/DC LED red	no	nickel	5100
F-5 24 Volt/DC LED red	no	white	5101
F-5 24 Volt/DC LED red	no	black	5102
F-5 24 Volt/DC LED red	no	chrom	5103
F-5 24 Volt/DC LED red	no	nickel	5105
F-5 12 Volt/DC LED blue	no	white	5140
F-5 12 Volt/DC LED blue	no	black	5142
F-5 12 Volt/DC LED blue	no	chrom	5144
F-5 12 Volt/DC LED blue	no	nickel	5148
F-5 24 Volt/DC LED blue	no	white	5141
F-5 24 Volt/DC LED blue	no	black	5143
F-5 24 Volt/DC LED blue	no	chrom	5145
F-5 24 Volt/DC LED blue	no	nickel	5149

# F-23



Gehäuse   Housing	Polycarbonat   Polycarbonate
Befestigung   Mounting	Schrauben   Screw
Lichtquelle   Light source	6 SMD LED, warm- oder kaltweiß, rot, blau, grün 6 SMD LED, warm- or coolwhite, red, blue, green
Schalter   Switch	nein   no
Dimmbar   Dimmable	nein   no
Klasse   Class	VF III
Besonderheiten   Features	




### Farben | Colors



### Technische Daten | Technical Data

Voltage	Watt	Φ-lm	IP
10-30	0,5	25	IP67
NIGHT	NIGHT	NIGHT	

Typ	Switch	Housing Color	Order No.
 <b>F-23 LED 0,5 Watt Surface mount</b>			
F-23 10-30 Volt/DC LED coolwhite	no	clear	7930
F-23 10-30 Volt/DC LED warmwhite	no	clear	7931
F-23 10-30 Volt/DC LED red	no	clear	7932
F-23 10-30 Volt/DC LED blue	no	clear	7933
F-23 10-30 Volt/DC LED green	no	clear	7934
F-23 Wallwasher 10-30 Volt/DC LED coolwhite	no	white	7935
F-23 Wallwasher 10-30 Volt/DC LED coolwhite	no	black	7940
F-23 Wallwasher 10-30 Volt/DC LED coolwhite	no	chrome	7945
F-23 Wallwasher 10-30 Volt/DC LED warmwhite	no	white	7936
F-23 Wallwasher 10-30 Volt/DC LED warmwhite	no	black	7941
F-23 Wallwasher 10-30 Volt/DC LED warmwhite	no	chrome	7946
F-23 Wallwasher 10-30 Volt/DC LED red	no	white	7937
F-23 Wallwasher 10-30 Volt/DC LED red	no	black	7942
F-23 Wallwasher 10-30 Volt/DC LED red	no	chrome	7947
F-23 Wallwasher 10-30 Volt/DC LED blue	no	white	7938
F-23 Wallwasher 10-30 Volt/DC LED blue	no	black	7943
F-23 Wallwasher 10-30 Volt/DC LED blue	no	chrome	7948
F-23 Wallwasher 10-30 Volt/DC LED green	no	white	7939
F-23 Wallwasher 10-30 Volt/DC LED green	no	black	7944
F-23 Wallwasher 10-30 Volt/DC LED green	no	chrome	7949

## LED Stabilizer F-PS-60D



Gehäuse   Housing	Aluminium   Aluminum
Montage   Mounting	Schrauben   Screw
Dimmbar   Dimmable	ja F-PS-60-D mit Modul R-570 yes F-PS-60-D with Module R-570
Klasse   Class	
Besonderheiten   Features	Eingang 10-30DC, Konstanter Ausgang 24V, 2,6A max. Input 10-30DC, constant output 24V, 2,6A max.
Maße   Dimensions	112 x 125 x 50 mm

<b>BL</b>	Voltage	Watt	<b>IP65</b>
	10-30	60	

## LED Dimmer R-570



Gehäuse   Housing	Polycarbonat   Polycarbonate
Befestigung   Mounting	Montageschienen   Rail
Schalter   Switch	für Druckschalter   for push button
Klasse   Class	
Maße   Dimensions	90 x 35 x 65 mm

<b>GR</b>	Voltage	Watt	Watt	<b>IP40</b>
	10-30	80	160	

by 12V by 24V

## Power Supply 230VAC/24VDC



Gehäuse   Housing	Polycarbonat   Polycarbonate
Befestigung   Mounting	Schrauben   Screw
Schalter   Switch	nein   no
Klasse   Class	

Watt	85 x 40 x 23 mm	Voltage	<b>IP40</b>
<b>12</b>		230	
Watt	166 x 39 x 33 mm		
<b>20</b>			
Watt	175 x 78 x 35 mm		
<b>60</b>			

## Switches



Gehäuse   Housing	Polycarbonat   Polycarbonate
Montage   Mounting	Klemmen   Snap in
Version   Version	EIN/AUS, 3-Wege-Druckschalter   ON/OFF, 3-way, Push button
Maße   Dimension	ø 20,2 mm
Stromverbrauch Power consumption	max. 10A   max. 10A

**BL**

Typ	Switch	Housing Color	Order No.
<b>LED Lighting Stabilizer</b>			
F-PS-60	no	black	6225
F-PS-60 D dimmable with module R-570	no	black	6409
Input 10-30 Volt DC Output constant 24 Volt DC max. 2,6A			
<b>LED Dimmer R-570</b>			
Master 10-30 V/DC - 12V 80W/ 24V 160W	for push button		6183
Slave 10-30 V/DC - 12V 80W/ 24V 160W	for push button		6184
<b>Power Supply for High voltage application</b>			
Power Supply 230V/AC - 24V/DC 1-12 Watt	no	white	5725
Power Supply 230V/AC - 24V/DC 1-20 Watt	no	black	6706
Power Supply 230V/AC - 24V/DC 1-60 Watt	no	white	5756
<b>Switch</b>			
Switch recessed ON/OFF max. 10A		black	6301
Switch recessed 3-way max. 10A		black	6302
Push button max. 10A		black	6835

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Postbus 22  
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**Reken op ons.**

