Архангельск (8182)63-90-72 Астана (7172)727-132 Астрахань (8512)99-46-04 Барнаул (8852)73-04-60 Белгород (4722)40-23-64 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Волгоград (844)278-03-48 Вологорад (844)278-03-48 Вологорад (8472)26-41-59 Воронеж (473)204-51-73 Катеринбург (343)884-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48 Калининград (4012)72-03-81 Калининград (4012)72-03-81 Калининград (4012)72-03-81 Киров (8332)68-02-04 Краснодар (861)203-40-90 Краснодар (861)203-40-90 Краснодар (861)203-40-90 Краснодар (861)203-40-90 Краснодар (861)203-40-91 Илиецк (4742)52-20-81 Киргизия (961)314-96-20-47 Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новосибирск (3813)20-46-81 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Казахстан (774)754,952-31

Пермь (342)205-81-47 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт Петербург (812)309-46-40 Саратов (445)249-38-78 Севастополь (8692)22-31-93 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Россия (4912)88-08-70

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

https://weidmuller.nt-rt.ru/ || wde@nt-rt.ru

A bright future for the efficiency of your systems Our intelligent combination of lighting and power Let's connect.

FieldPower[®] Wind Energy



Our system solution Benefit from the advantages of a system solution from a single source Let's connect.



Dear readers,

Your aspiration is to achieve maximum system efficiency for minimum acquisition and overall operating costs. At the same time, your customers demand reliable and sustainable cost-effective solutions. At Weidmüller, we have been involved in the wind power sector right from the start and know your requirements inside out.

Based on our proven FieldPower[®] series we have developed a complete lighting and power system specifically for wind power installations, which you can integrate into any application-specific system: FieldPower[®] Wind Energy.

FieldPower[®] Wind Energy will allow you to unlock new potential for achieving increased efficiency, overall cost reductions and quality assurance. And the best part: you get all the components from a single source. This does away with time-consuming arrangements with different component suppliers – and saves a lot of hassle.

Let's connect.

4	You want to be successful in the wind energy sector You can count on our experience
6	Take advantage of an up to 100% customised system desig Thanks to our proven FieldPower® concept
8	The future of your lighting systems is in LED technology We have enlightening arguments to back up our claim
10	Your systems require a reliable power supply With our connectivity solutions you are permanently supplied
12	You want to know if the investment is worth your while We will show you – by way of direct comparison
14	You benefit from the advantages of a system solution We supply you with everything from a single source
16	LED customized solution That's how your tower solution could look like
18	Technical data LEDs, Control Unit, Power supplies, UPS modules
28	Your expectations of system engineering continue to grow Just like the performance of our product range
30	Our expertise for your requirements Service connects – worldwide
32	Online support and downloads Exactly the right help and information on our solutions and products



You increase the market success of your systems We support you with an integrated design

As a supplier of wind power systems you are under ever-increasing pressure from your competitors. This is why you need to design your latest wind turbines to deliver as much success as possible. The aim is to achieve maximum system efficiency for minimum acquisition and overall operating costs. At the same time, your customers demand reliable and sustainable cost-effective solutions.

At Weidmüller we have been involved in the wind power sector right from the start and know your requirements inside out. Based on our proven FieldPower[®] series we have developed a complete lighting and power system specifically for wind power installations, which you can integrate into any application-specific system: FieldPower® Wind Energy. FieldPower[®] Wind Energy will allow you to unlock new potential for achieving

increased efficiency, overall cost reductions and guality assurance. And the best part: you get all the components from a single source. This does away with timeconsuming arrangements with different component suppliers - and saves a lot of hassle.

Let's connect.

High system efficiency – low operating costs Our unique system for lighting and power

FieldPower® Wind Energy - all the benefits of a system solution



· Savings in materials and costs through smaller cable cross-

 Cost-effective UPS integration Precisely tailored components



Take advantage of an up to 100% customised system design Thanks to our proven FieldPower[®] concept

Optimal lighting in the tower FieldPower[®] Duo LED with upwards and downwards facing directional light. Ideal for illuminating wall sections, such as in and around the ladders in the tower.

Optimum power supply

Individual positioning of compact power outlets. For quick access to power in all sections and levels of the turbine.



Optimal lighting in the hub and nacelle

FieldPower® Mono LED K with collimators for directional lighting. Ideal for illuminating work areas requiring high levels of lighting in a small space.

The future of your lighting systems is in LED technology

We have enlightening arguments to back up our claim

LED lamps currently provide the most advanced and long-term cost-effective lighting concept on the market. They are much more efficient, compact, robust and durable than conventional strip lights – and far easier to handle.



Temperature-insensitive

LED lamps are considerably less sensitive to extreme temperatures and temperature fluctuations than conventional forms of lighting.



100% Full power in an instant

LED lamps achieve full luminosity the moment they are switched on – even in emergency mode. Their fast response behaviour means that visual warning and error messages are also an option.

DC input

A wide input range of 24 V DC to 120 V DC makes LED lamps suitable in all sections of a wind turbine.



Vibration-resistant

Well protected

moisture.

LED lamps continue to work reliably for long periods even when subjected to strong vibrations. This allows them to be used in all locations and reduces the cost of maintenance and replacements.

Enclosures with enhanced IP protection

classes make FieldPower® LED lamps

impervious to the ingress of dirt and



Exceptional energy efficiency

The high energy efficiency of LED lights make them economical to use over the long term in all areas of wind turbine applications.



Shock-resistant

Even severe shocks have hardly any impact on LED lamps. This makes them easy to transport and also reduces downtimes for installation and replacements.



Cost-effective installation

Voltages from 24 V DC to 120 V DC enable conductors with small cross sections to be used. This significantly reduces materials and investment costs.



Your systems require a reliable power supply

With our connectivity solutions you are permanently supplied



The choice of device connection technology often has a significant bearing on the economics of the system. To ensure you are permanently connected, we provide you with a power supply solution that is precisely tailored to all the relevant requirements and environmental conditions. This includes everything from the most suitable power supply unit thorough to a central UPS with battery and any additional modules that may be required.

Power supplies

Switched-mode power supplies from the PROmax series are the robust and high-performance connectivity solution for the wind energy sector. Even continuous overloads or short-term peak loads of 300 percent hardly have an impact on them. We provide you with suitable uninterrupted power supplies and electronic fuses. A multitude of approvals mean that our PROmax switched-mode power supplies can be used around the world.

UPS and battery modules

The UPS control units are adapted to the SMPS and, in conjunction with the associated battery modules, form a complete DC-UPS system. The system permits backup times ranging from minutes to hours and has been optimised for long battery life. Multiple status relays provide comprehensive condition monitoring.

Control Unit

The remote monitoring system provides status messages on the condition of the lighting and power supply system. This enables maintenance work to be scheduled well in advance, leading to a significant reduction in system maintenance costs.

Remote monitoring can be easily integrated into existing systems. The remote monitoring system also provides optional support for existing warning systems, such as the control of a visual alarm system in the tower.









You want to know if the investment is worth your while

We will show you - by way of direct comparison

Plant size and type, location, environmental conditions, country-specific standards and regulations: a multitude of factors influence the individual planning of a wind turbine system. For this reason, we want to make sure that our lighting and power concept meets each and every one of your requirements. In a detailed simulation, we will show you how our system can be integrated in your wind turbines - as well as explaining exactly how you will benefit. The service is free and without obligation.

Totally secure: our project support







will guide you through the application-specific planning and implementation of your customised lighting and power supply concept.



You benefit from the advantages of a system solution

We supply you with everything from a single source

FieldPower[®] Wind Energy has everything you need to light up the interior of your wind turbines and supply them with power. In keeping with the Weidmüller FieldPower[®] series, which has proven its worth many times over, the innovative system solution cuts an impressive figure with its high efficiency and practical handling.

Individual outlets

The FieldPower[®] system enables customised use of compact power outlets at all levels and in all locations. This means that service staff, for instance, always have perfect access to power and thus save valuable time.

Feed-In Box

For 48V DC feed-in to our Fieldpower LED tower lighting. In the event of power loss, continued operation is ensured for 60 minutes.



FieldPower® Mono LED FieldPower® Mono LED K

Non-directional lighting for illuminating entire rooms and larger areas. Provides optimum working conditions in the nacelle, hub and on the platforms.

FieldPower[®] Duo LED

Lights facing both upwards and downwards for lighting up the wall area. Ideal for illuminating the ladders in the tower.

Pre-assembled cables

On request, we can supply power cables assembled according to your individual requirements. They are ready to install and equipped with our proven plug-in connectors.



Complete power supply system

We provide you with a power supply solution that is precisely tailored to specific requirements and environmental conditions. This includes everything from the power supply unit through to a UPS with central battery and any suitable add-on modules.

Control Unit

The remote monitoring system provides status messages on the condition of the lighting system and can be easily integrated into existing wind farm systems. It also provides an option for controlling a visual alarm system in the tower as a perfect complement to existing monitoring systems.



LED customized solution

That's how your tower solution could look like

Pre-assembled system acc.to customers demands for wind turbine generators

- Non-directional lighting for illuminating entire rooms and larger areas. Provides optimum working conditions in the nacelle, hub and on the platforms.
- Easy fixing along cable channel or with magnets
- Fixing plates of LEDs and Outlet boxes up to 100% customised acc. to customer needs
- Pluggable segment to segment
- Reduced cable sizes
- Defined labeling of all components acc. to E-Plan and installation manual
- Individual, easy fitting packages of all components

Tested LED strings \rightarrow

reduced test procedure @ tower manufacturer Easy expansion, platform concept









Feed-in Box

- Power supply PRO MAX
- Fuse protection device
- Control Unit WCU for inspection
 and alert
- Test mode battery
- 230 V Schuko, 230 V CEE, 400 V CEE
- Cooling fan/ Heating (option)
- On / Off Switch, Status LEDs
- Multiplug feed-in (Harting or
- compatibel)
- Supply LED strings AC/DCSupply Outlets 230 V / 400 V
- Details acc. to customers Specs



Directional lighting for illuminating the tower

FP Duo LED DC HQ8

24...120 V DC

0.2 A (24 V DC)

5 W

11/2

any IP 54

2

≤ 3.000 m

< 500 V (housing/PE)

no (PVC conductor)/yes

EN 60721-3-3, Class 3M3

5 m/s² (0.5 G) (at 9-200 Hz)

496 lm (both directions in total)

0.5 mm²...2.5 mm² (HQ 2.5)

EN 60721-3-3, Class 3M3

> 50.000 hrs

1.5 mm (2-9 Hz)

70 m/s² (7 G)

Cool White, 6.000 K

Acc. to EN 55015

Acc. to EN 61547

UL 1598 / GL / CSA

VO

intern

Δ+

-40 °C...+60 °C / -40 °C...+70 °C

21,6 V...144 V DC / reverse polarity protected

FP Duo LED DC SA

24...120 V DC

0,2 A (24 V DC)

< 500 V (housing/PE)

no (PVC conductor)/yes

EN 60721-3-3, Klasse 3M3

5 m/s² (0,5 G) (bei 9-200 Hz)

496 lm (both directions in total)

open conductor end /length 2 m

Heluwind WK 103w-Torsion 2 x 2,5 mm²

00000

10000

EN 60721-3-3, Klasse 3M3

> 50.000 Std.

1.5 mm (2-9 Hz)

70 m/s² (7 G)

nach EN 55015

nach EN 61547

UL 1598 / GL / CSA

intern Cool White, 6.000 K

A+

VO

-40 °C...+60 °C/-40 °C...+70 °C

5 W

11/2

any IP 54 / IP 65*

2

 \leq 3.000 m

21,6 V...144 V DC/reverse polarity protected





Technical data

Rated data to EN 60598-1
Rated voltage
Variable-voltage input
Power rating /power loss
Inrush current
General data
Overvoltage category pollution degree
Elevation
Insulation voltage
Mounting position
Protection class to IEC 60529
Protection class
Ambient temperature (operational/storage)
Halogen-free /silicone-free
LED operating life
Resistance to vibration, sinusoidal, stationary
Amplitude deflection
Amplitude acceleration
Resistance to shock, portable
Peak acceleration, type L
Short-circuit protection
Light colour (CCT)
Light current
Efficiency class (to EU Ordenance No. 874/2012)
EMC
Noise emission
Noise immunity tests
Connection data
Type of connection
Line type
Wire cross-section (connecting line)
Approvals
Standard

otandara	
Fire specification to UL 94	ł

Ordering data						
	Туре	Qty	Order No.	Тур	Qty	Order
	FP Duo LED DC HQ8	1	1488480000	FP Duo LED DC SA	1	14885
Accessories						
Markers (self-adhesive)	Туре	Qty	Order No.	Тур	Qty	Order
	THM MT30x 38/17	Reel	1011610000	THM MT30x 38/17	Reel	10116

Plug-in connector with fixed number of poles, HQ 4/2





Technical Description	
Designation	FP DUO L_ED DC HQ8
Manufacturers	Weidmueller
Catalogue numbe	1488480000
Light exit	Cuboid 0.148 x 0.100 x 0.010 m
Lamps	1 x LED 5 W
Nominal luminous flux	496 lm
Nominal power	4.9 W
LOR	100 %



18



jgh

of

Angle

Clas

S = 0.25 H		
70/50/20		
14.9		
16.6		

Classification	
LiTG	C63
EN	
BZ	
UTE	0.50 B + 0.50 T
CIE Flux Codes	79 86 93 50 100

* in preperation

Optima surface illumination in DC environments

FP Mono LED K DC HQ8

FP Mono LED K DC SA





Technical data

Rated data to EN 60598-1
Rated voltage
Variable-voltage input
Power rating /power loss
Inrush current
General data
Overvoltage category pollution degree
Elevation
Insulation voltage
Mounting position
Protection class to IEC 60529
Protection class
Ambient temperature (operational/storage)
Halogen-free /silicone-free
LED operating life
Resistance to vibration, sinusoidal, stationary
Amplitude deflection
Amplitude acceleration
Resistance to shock, portable
Peak acceleration, type L
Short-circuit protection
Light colour (CCT)
Light current
Efficiency class (to EU Ordenance No. 874/2012)
EMC
Noise emission
Noise immunity tests
Connection data
Type of connection
Line type
Wire cross-section (connecting line)
Approvals
Standard
Fire specification to UL 94

24120 V DL		
21,6 V144 V DC/reverse polarity prote	ected	
5 W		
0.2 A (24 V DC)		
. ,		
11/2		
≤ 3.000 m		
< 500 V (housing / PE)		
any		
IP 54		
2		
-40 °C+60 °C/-40 °C+70 °C		
no (PVC conductor)/yes		
> 50.000 hrs		
EN 60721-3-3, Class 3M3		
1.5 mm (2-9 Hz)		
5 m/s² (0.5 G) (at 9-200 Hz)		
EN 60721-3-3, Class 3M3		
70 m/s ² (7 G)		
internal		
Cool White, 6.000 K		
454 Im		
A		
Acc. to EN 55015		
Acc. to EN 61547		
Plug-in connector with fixed number of p	oles, HQ 4/	/2
0.5 mm ² 2.5 mm ²	_	
V0		
vo		
Туре	Qtv	Order No.
FP MONO LED K DC HQ8	1	1507050000
Tyne	Otv	Order No.

5 W		
0.2 A (24 V DC)		
11/2		
≤ 3.000 m		
< 500 V (housing/PE)		
any		
IP 54 / IP 65*		
2		
-40 °C+60 °C/-40 °C+70 °C		
no (PVC conductor)/yes		
> 50.000 hrs		
EN 60721-3-3, Class 3M3		
1.5 mm (2-9 Hz)		
5 m/s² (0.5 G) (at 9-200 Hz)		
EN 60721-3-3, Class 3M3		
70 m/s ² (7 G)		
internal		
Cool White, 6.000 K		
454 lm		
A		
Acc. to EN 55015		
Acc. to EN 61547		
open conductor end /length 2 m		
Heluwind WK 103w-Torsion 2 x 2.5 mm ²		
111 1509 / CL / CSA		
V0		
VO		
Туре	Qty	Order No.
FP MONO LED K DC SA	1	150704000

 Oty
 Order No.

 Reel
 1011610000

Type THM MT30x 38/17





Technical Description	
Designation	FP MONO LED K DC HQ8
Manufacturers	Weidmueller
Catalogue numbe	1507050000
Light exit	Cuboid 0.148 x 0.100 x 0.010 m
Lamps	1 x LED 5 W
Nominal luminous flux	454 Im
Nominal power	4.4 W
LOR	100 %



Ordering data

Accessories

Markers (self-ad)

20



ight

J.

Angle

X = 4 H, Y = 8 H	S = 0.25 H
Reflection factors	70/50/20
UGR transversal	17.7
UGR axial	15.1

A71
0.99 A + 0.01 T
83 93 98 99 100

Optimum surface illumination for AC and DC environments

FP Mono LED DC HQ8

FP Mono LED DC SA

BG GHDE LED TL M4 PT6







100...265 V DC + AC (45...65 Hz)

265 V

7W/<2W

0.5 A / 0.1 ms

Technical data

Rated data to EN 60598-1
Rated voltage
Variable-voltage input
Power rating /power loss
Inrush current
General data
Overvoltage category pollution degree
Elevation
Insulation voltage
Mounting position
Protection class to IEC 60529
Protection class
Ambient temperature (operational/storage)
Halogen-free /silicone-free
LED operating life
Resistance to vibration, sinusoidal, stationary
Amplitude deflection
Amplitude acceleration
Resistance to shock, portable
Peak acceleration, type L
Short-circuit protection
Light colour (CCT)
Light current
Efficiency class (to EU Ordenance No. 874/2012)
EMC
Noise emission
Noise immunity tests
Connection data
Type of connection
Line type
Wire cross-section (connecting line)
Approvals
Standard
Fire specification to UL 94

24120 V DC		
21,6 V144 V DC / reverse polarity	protected	
5 W		
0.2 A (24 V DC)		
II/2		
≤ 3.000 m		
< 500 V (housing / PE)		
any		
IP 54		
2		
-40 °C+60 °C/-40 °C+70 °C		
no (PVC conductor)/yes		
> 50.000 hrs		
EN 60721-3-3, Class 3M3		
1.5 mm (2-9 Hz)		
5 m/s ² (0.5 G) (at 9-200 Hz)		
EN 60721-3-3, Class 3M3		
70 m/s ² (7 G)		
internal		
Cool White, 6.000 K		
393 lm		
Α		
Acc. to EN 55015		
Acc. to EN 61547		
Plug-in connector with fixed number	ot poles, HQ 4/	2
0.5 0.5 0		
0.5 mm ² 2.5 mm ²		
111 4500 (01 (004		
UL 1598 / GL / CSA		
VU		
T	0:	Onder No
	uty	Urder No.
	1	140033000
Type	0+	Order No
THM MT30v 38/17	Real	101161000
	11661	

21.6 V., 144 V DC/reverse polarity protecte	ed	
5 W		
0.2 A (24 V DC)		
II/2		
≤ 3.000 m		
< 500 V (housing / PE)		
any		
IP 54 / IP 65*		
2		
-40 °C+60 °C/-40 °C+70 °C		
no (PVC conductor) /yes		
> 50.000 hrs		
EN 60721-3-3, Class 3M3		
1.5 mm (2-9 Hz)		
5 m/s ² (0.5 G) (at 9-200 Hz)		
EN 60721-3-3, Class 3M3		
70 m/s ² (7 G)		
internal		
Cool White, 6.000 K		
393 lm		
A		
Acc. to EN 55015		
Acc. to EN 61547		
open conductor end /length 2 m		
Heluwind WK 103w-Torsion 2 x 2.5 mm ²		
UL 1598 / GL / CSA		
VO		
Туре	Qty	Order No.
	1	14005 2000

 Oty
 Order No.

 Reel
 1011610000

Туре ТНМ МТ30x 38/17

Overvoltage category pollution degree	II / 2
Elevation	≤ 3.000 m
Insulation voltage	< 500 V (housing / PE)
Mounting position	any
Protection class to IEC 60529	IP 65 when mounted
Protection class	2
Ambient temperature (operational/storage)	-40 °C+60 °C/-40 °C+70 °C
Halogen-free / silicone-free	no (PVC conductor)/yes
LED operating life	> 50.000 hrs
Resistance to vibration, sinusoidal, stationary	EN 60721-3-3, Class 3M3
Amplitude deflection	1.5 mm (2-9 Hz)
Amplitude acceleration	5 m/s ² (0.5 G) (at 9-200 Hz)
Resistance to shock, portable	EN 60721-3-3, Class 3M3
Peak acceleration, type L	70 m/s² (7 G)
Short-circuit protection	internal
Circuit breaker	< 10 A
Light colour (CCT)	Cool White, 6.000 K
Light current	393 lm
EMC	
Noise emission	Acc. to EN 55015
Noise immunity tests	Acc. to EN 61547
Connection data	
Type of connection	open conductor end /length 2 m
Line type	Heluwind WK 103w-T 3G1.5 (AD 8
Note	
	Mounting: direct mounting on a stainle
	metric M4 screws.
	Conductor gasket: cable gland M16 or
	Note the maximum thread lengths of t
Approvals	
Standard	UL 1598
Fire specification to UL 94	VO
Rated voltage	120 VAC

Ordering data

Technical data

Variable-voltage input

Power rating/power loss

Rated voltage

Inrush current

General data

Rated data to EN 60598-1

Туре	
BG GHDE LED TL M4 PT6	

22

Ordering data

Accessories

Markers (self-adhesive



265 V

II / 2 ≤ 3.000 m

7W/<2W

0.5 A / 0.1 ms

< 500 V (housing/PE)

100...265 V DC + AC (45...65 Hz)



_			
-			
	_	_	

any		
IP 65 when mounted		
2		
-40 °C+60 °C/-40 °C+70 °C		
no (PVC conductor)/yes		
> 50.000 hrs		
EN 60721-3-3, Class 3M3		
1.5 mm (2-9 Hz)		
5 m/s² (0.5 G) (at 9-200 Hz)		
EN 60721-3-3, Class 3M3		
70 m/s² (7 G)		
internal		
< 10 A		
Cool White, 6.000 K		
393 lm		
Acc. to EN 55015		
Acc. to EN 61547		
open conductor end/length 2 m		
Heluwind WK 103w-T 3G1.5 (AD 8 mm	ı)	
On housing base without (1070140000)) or	
with cutout (1272210000) or with cab	le gland (.0000). Enclosure
seals RKDG must be ordered separate	ly.	
UL 1598		
VO		
120 VAC		
Туре	Qty	Order No.
BG GHDE LED TL PT6	1	1390850000

D3w-T 3G1.5 (AD 8 mm)

mounting on a stainless steel mounting plate with four

t: cable gland M16 order seperately m thread lengths of the glands.

Ωtv	Order No
1	1300870000
1	1330070000

BG GHDE LED TL PT6



Technical data

Rated data to EN 60598-1 Rated voltage Variable-voltage input Power rating/power loss Inrush current General data Overvoltage category pollution degree Elevation Insulation voltage Mounting position Protection class to IEC 60529 Protection class Ambient temperature (operational/storage) Halogen-free/silicone-free LED operating life Resistance to vibration, sinusoidal, stationary Amplitude deflection Amplitude acceleration Resistance to shock, portable Peak acceleration, type L Short-circuit protection Circuit breaker Light colour (CCT) Light current EMC Noise emission Noise immunity tests Connection data Type of connection Line type Note

Approvals Standard

Fire specification to UL 94 Rated voltage

Ordering data

26	5 V
10	0265 V DC + AC (4565 Hz)
7 \	W/<2W
0.	5 A / 0.1 ms
11 /	2
\leq	3.000 m
<	500 V (housing / PE)
an	y
IP	65 when mounted
2	
-4	0 °C+60 °C/-40 °C+70 °C
no	(PVC conductor) /yes
>	50.000 hrs
ΕN	l 60721-3-3, Class 3M3
1.	5 mm (2-9 Hz)
5 ו	m/s² (0.5 G) (at 9-200 Hz)
ΕN	l 60721-3-3, Class 3M3
70	1 m/s ² (7 G)
int	ernal
<	10 A
Co	ol White, 6.000 K
39	13 lm
Ac	c. to EN 55015
Ac	rc. to EN 61547
ор	en conductor end /length 2 m
He	luwind WK 103w-T 3G1.5 (AD 8 mm)
On	lower housing section GH PT6 (1070140000)
wi	th contact terminal PT6 (1957620000)
Rk	(DG must be ordered separately.
UL	1598
VC	l
12	O VAC

Mounting options LED module installed on bottom housing section GH PT6 (1070140000), with contact terminal _____ PT6 (1957620000).





1598			
) VAC			

Qty Order No. Туре BG GHDE LED TL PTS 4 1 1390880000





	Technical Description
Designation	FP MONO LED DC HQ8
Manufacturers	Weidmueller
Catalogue number	1488530000
Light exit	Cuboid 0.148 x 0.100 x 0.010 m
Lamps	1 x LED 5 W
Nominal luminous flux	393 lm
Nominal power	4.8 W
LOR	100 %



X = 4 H, Y = 8 H	S = 0.25 H
Reflection factors	70/50/20
UGR transversal	22.9
UGR axial	22.5

Classification	
LiTG	A41
EN	
BZ	
UTE	0.94 D + 0.06 T
CIE Flux Codes	47 77 93 94 100

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Angle

Convenient and economical remote maintenance

Control Unit WCU 501

X1 SUPPLY ↓	X2 IN/OUT ↓						
1 +732 V	1 IN 1						
2 GND	2 IN 2						
	3 IN 3						
	4 IN 4						
I-K	5 IN 5						
	6 OUT 1						
	7 OUT 2						
X3	8 OUT 3						
ISP X4	9 OUT 4						
RS232	10 OUT 5						

Fechnical data	
Input	
Input fuse (external)	max. 5 A
Current consumption	< 4 mA
Operating voltage	7 V DC32 V DC
Electrical connection	
Connection cross-section, min./max.	0.25 mm ² /1.5 mm ²
Wire connection method	PUSH IN
General data	
Ambient temperature (operational/storage)	-40 °C+70 °C/-40 °C+70 °C
Type of protection	IP 20
Safety	Watch, Fail-Safe Clock
Enclosure material	AcryInitril-Butadien-Styrol (ABS)
Grouting material	Polyurethane (PU)
Programmable, interface	miCon-L (graphical), RS232
EMV/shock/vibration	
Shock resistance	min. 100 m/s ² (10 G)
Vibration resistance	min. 50 m/s² (5 G) bei 10100 Hz
Digital input IN1-IN2	
U _N	0-30 V DC
ULOW	≦ 5 V DC
f _{IN}	≦ 1 kHz
R ₁	> 30 kΩ
U _{HIGH}	> 5 V DC
t _{in}	≥ 1 ms
Analogue input IN3-IN5	
U _N	0-30 V DC
R _i	> 11 kΩ
Accuracy IN3-IN5	
Accuracy ADC	+/- 3 % (0,5 V DC) 10 Bit
Output OUT1-OUT4	
Iout	1.5 A
$U_{\text{out}} = U_{\text{in}}$	-0.45 V
I _{TOT}	≦ 4 A
PWM output OUT5	
Iout	≦ 2 A
U _{out}	≦ GND + 0.25 V
f _{our}	1-5 kHz
s	500 Hz
Conformity/standards	
Conformity	2006/95/EG; 2004/108/EG
Standarda	EN 60730-1; EN 61010-1; EN 5008
Stannaurs	EN 60068-2-78:2002; EN 60068-2

Ordering data

Accessories

Polyurethane (PU)	
 miCon-L (graphical), RS232	
min. 100 m/s² (10 G)	
min. 50 m/s² (5 G) bei 10100 Hz	
0-30 V DC	
\leq 5 V DC	
≦ 1 kHz	
> 30 kΩ	
> 5 V DC	
 ≥ 1 ms	
0-30 V DC	
 > 11 kΩ	
 +/- 3 % (0,5 V DC) 10 Bit	
1.5 A	
-0.45 V	
 ≦ 4 A	
≦ 2 A	
≦ GND + 0.25 V	
1-5 kHz	
 500 Hz	
2006/95/EG; 2004/108/EG	
EN 60/30-1; EN 61010-1; EN 50081-1; EN 50082	-1;
 EN 60068-2-78:2002; EN 60068-2-6:2008; ISO 16	750-3:2007
Туре	Order No.
Control Unit WCU 501	1517130000

Туре Starter Kit WCU 501 Order No.

1548720000

Sufficiently high performance – at any time **PROmax power supplies and UPS modules**

	Туре		Input side		Output side Addit Funct						Additional Functions					Recommended application							Order No.		
*		Phases	AC input voltage [V]	DC input voltage [V]	Rated voltage [V]	Rated current [A]	Power rating [W]	Derating at [°C]	Power Boost [60 s]	Status relay	Side-by-side connectability	Temperature range [°C]	Effficiency [%]	MTBF time [Mh]	Overvoltage category	Approvals	Feldschaltschränke	Small and series machine constr.	Machine construction	Simple process applications	Process industry	Energy technology	Power distribution	Marine engineering	
	PRO MAX 72 W 24 V 3 A	1	85-277	80-370	24	3	72			CO	٠		90			CE			•	•	•	•	•	•	1478100000
	PRO MAX 120 W 24 V 5 A	1	85-277	80-370	24	5	120			CO	٠	-25	90						•	٠	•	•	•	•	1478110000
	PRO MAX 180 W 24 V 7.5 A	1	85-277	80-370	24	7.5	180			CO	٠	up to	91			$\mathbf{\tilde{w}}$			•	•	•	•	•	•	1478120000
	PRO MAX 240 W 24 V 10 A	1	85-277	80-370	24	10	240		120 %	CO	٠	+70	91			à			•	•	•	•	•	•	1478130000
ma	PRO MAX 480 W 24 V 20 A	1	85-277	80-370	24	20	480	> 60		CO	٠		91.5	> 0 5		FAT			•	•	•	•	•	•	1478140000
PRO	PRO MAX 960 W 24 V 40 A	1	85-277	80-370	24	40	960	/ 00	300 %	CO	•		92.5	/ 0.0	""	SEMI F47			•	•	•	•	•	•	1478150000
	PRO MAX3 120 W 24 V 5 A	3	3 x 320-3 x 575	450-800	24	5	120		@1s	CO	•	Start-up	90			c Mus			•	•	•	•	•	•	1478170000
	PRO MAX3 240 W 24 V 10 A	3	3 x 320-3 x 575	450-800	24	10	240			CO	•	@	91			CI1Div2			•	•	•	•	•	•	1478180000
	PRO MAX3 480 W 24 V 20 A	3	3 x 320-3 x 575	450-800	24	20	480			CO	•] -40 °C	91.5			(GL)			•	•	•	•	•	•	1478190000
	PRO MAX3 960 W 24 V 40 A	3	3 x 320-3 x 575	450-800	24	40	960			CO	•		92.5			Einige ausstehend, As of July 2014			•	•	•	•	•	•	1478200000





Output			Order No.				
Rated current [A]	Power rating [W]	Status relay	Parallel connection option	Side-by-side connectability	Temperature range [°C]	Approvals (all CE)	
20	480	•		•	-25		1251220000
20/10	480/240	•		•	to	c UL us	1370050010
40	960	•		•	+/0	c RL us	1370040010
10 A / 11.3 min	1.3 Ah		≤2	•			1406930000
10 A /11.3 min	3.4 Ah		≤2	•	0	_	1251070000
10 A / 26.5 min	7.2 Ah		≤2	•	to		1251080000
10 A / 51 min	12 Ah		≤2	•	+40	_	1251090000
10 A / 81 min	17 Ah		≤2	•			1251110000

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modules

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