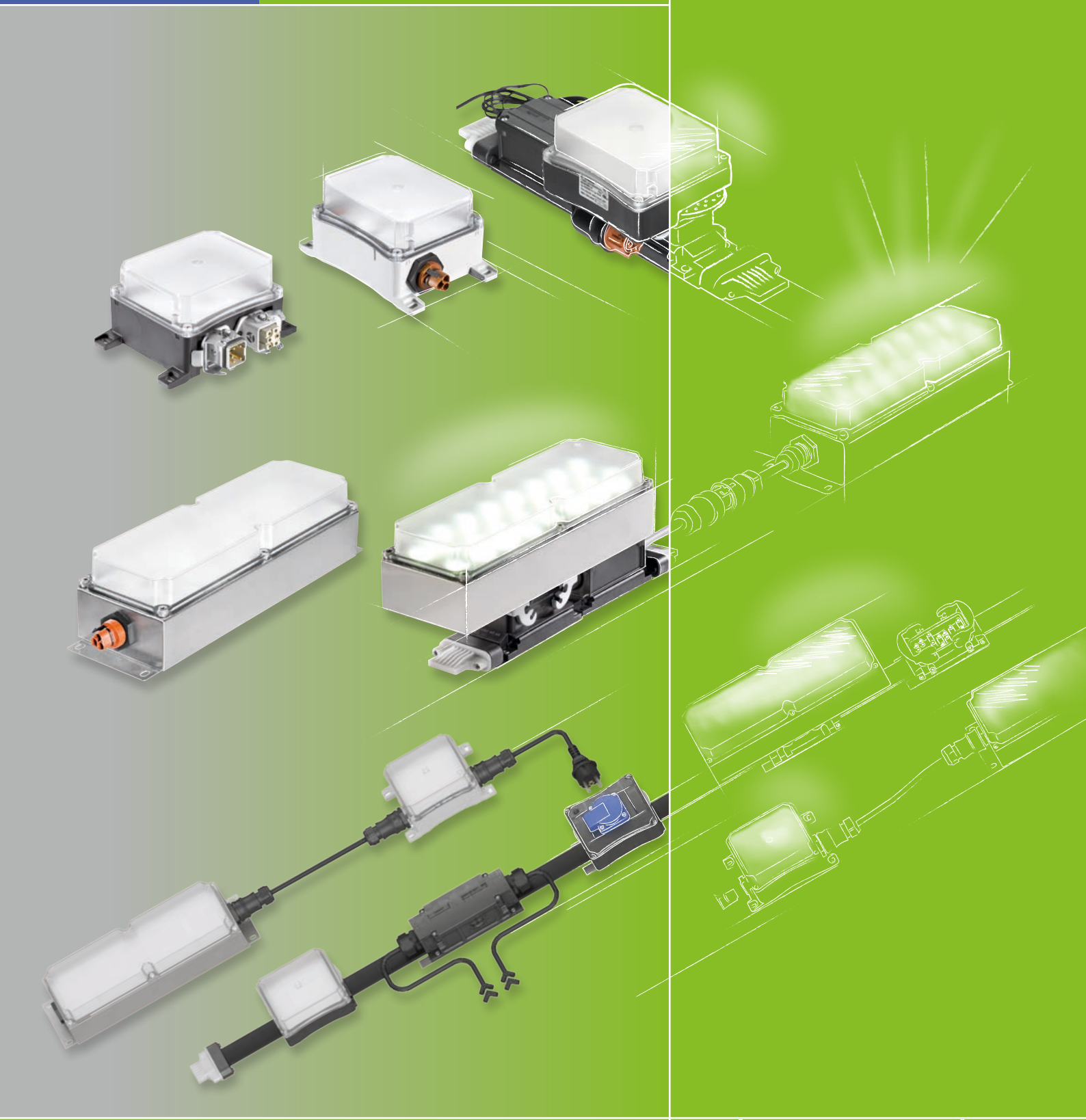
wieland



podis® LED

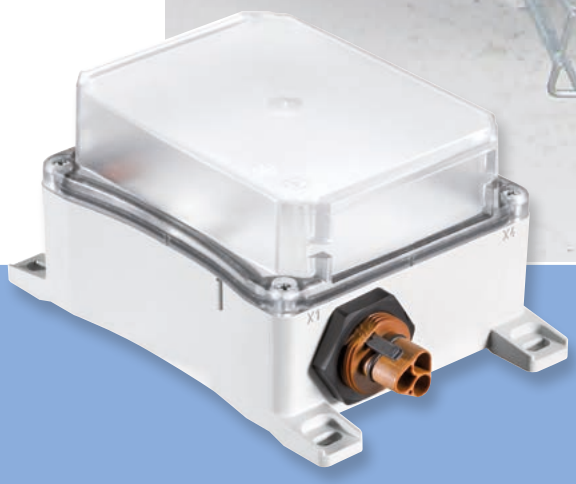
LED lights for use in industrial environments

podis® LED – the maintenance-free light

podis® LED is the reliable lighting solution for industrial use in harsh environments. With their robust housing and insensitivity to vibration, these lights are especially suitable for illuminating work areas and routes in plant and machinery, both inside and out.

Advantages of the LED lights:

- Energy-saving LED technology
- Satisfies requirements for emergency lighting (DIN EN 60598-2-22)
- Suitable for extreme temperature ranges (-40 °C to +70 °C)
- Wide input voltage range
- Resists shock and vibrations



Installation of the lighting and maintenance sockets using the podis® energy bus system

podis® – open and shut matter: simple, fast and safe installation worldwide

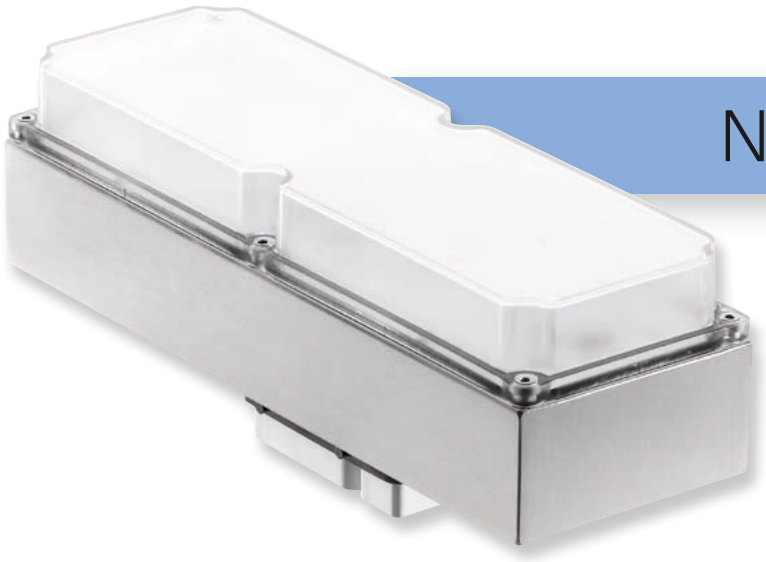
With the innovative flat cable system, podis® the lighting and maintenance sockets can be installed very quickly and with no complications. podis® offers a multitude of system components which can be specifically adjusted to the demands of tower construction and also enable space-saving, extremely well-organized cable management.

Installation of the lighting and maintenance sockets using the gesis® RST® energy bus system

gesis®RST® – when the cable should be round

The gesis® RST® round cable system opens totally new installation possibilities. Complete system components can be pre-assembled and tested independently of the intended installation location. Then the individual modules just need to be connected with each other on site. This saves time during assembly, reduces the potential for mistakes and increases safety. The connector system gesis® RST® is the best solution for applications with round cables.
With gesis® RST®, devices are easily pluggable. Electrical consumers are quickly and safely integrated into the gesis® RST® installation system via device connections that function as interfaces. Even short-notice changes can be carried out without a problem and with a constantly high and standardized installation quality.
The 6 mm² connection keeps the voltage gradient low, thus enabling installations with a tower height exceeding 140 m to be achieved.

podis® LED 2 klm – the new, bright light



NEW

NEW

Features:

- Spherical or oval light cone
- Optimized for work areas, or escape routes, shafts, towers, tunnels
- Glare- and flicker-free light
- Efficient light source
- Robust design
- Maintenance-free, extremely durable
- Corrosion-resistant
- ***podis***® flat cable connection or ***gesis***® round cable connection
- 24 V DC or 230 V AC connection voltage

podis® LED 2 klm – robust and multifaceted

With their robust, durable design as well as their excellent light quality, **podis®** LED lights are especially suited for use in industrial environments.
The **podis®** LED 2 klm needs no maintenance and is corrosion resistant, making it ideal for efficient lighting of work areas and emergency routes under special environmental demands such as weathering or extreme temperatures.
Depending on the application area, different light distribution curves can be selected from. A light with a very wide light cone is superb for uniform lighting of work areas, for example, for the nacelles of wind turbines. A light with a directed light cone, however, is suited to the efficient lighting of a long room; for example, for the entry to towers or shafts, or in passageways and corridors.
With these features, these durable lights can be used for work lighting or emergency lighting at the same time.
The **podis®** LED 2 klm is available for the installation platform **podis®** on flat cables as well as for the round cable energy bus **gesis® RST®**.

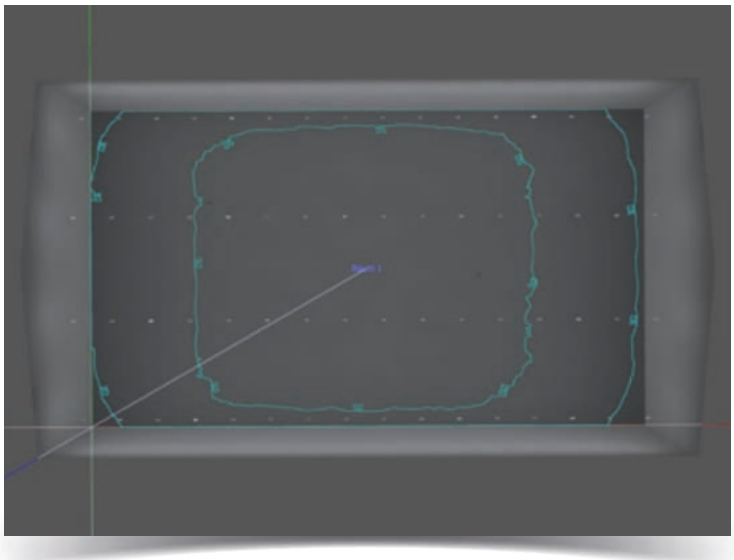
Applications:

- Wind energy turbines, towers and nacelles
- Elevator systems, shafts
- Tunnels, passageways, emergency exits
- Temporary structures, shipbuilding, etc.
- Agricultural systems
- Horticulture/greenhouses, etc.
- Work lighting in and on machines
- Emergency lighting with the **podis®** UPS
- Pathway and street lighting
- Event equipment
- Off-grid lighting systems
- And much more...

podis® LED 2 klm – example for application in hall lighting

Hall 50 x 30 x 10 m
with podis® LED 2 klm

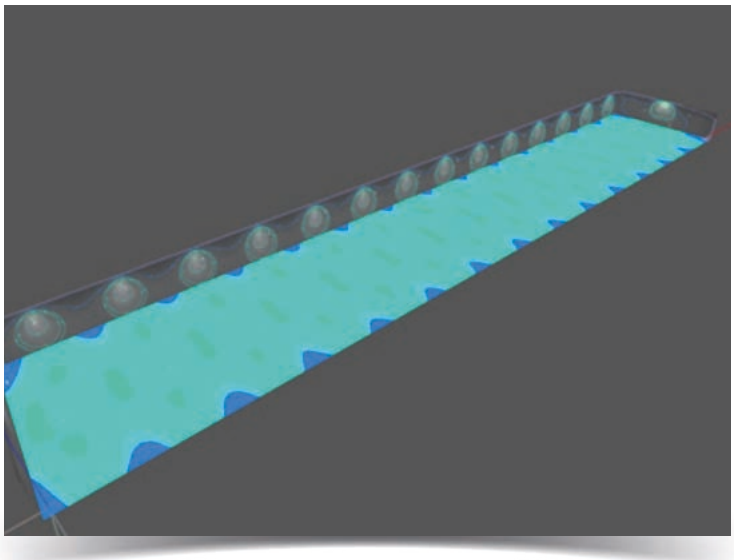
- Highly uniform lighting
- Simple, pluggable installation
- Power consumption only 1280 W
- Medium lighting intensity 50 lx



Hall 50 x 30 x 10 m
with podis® LED 2 klm

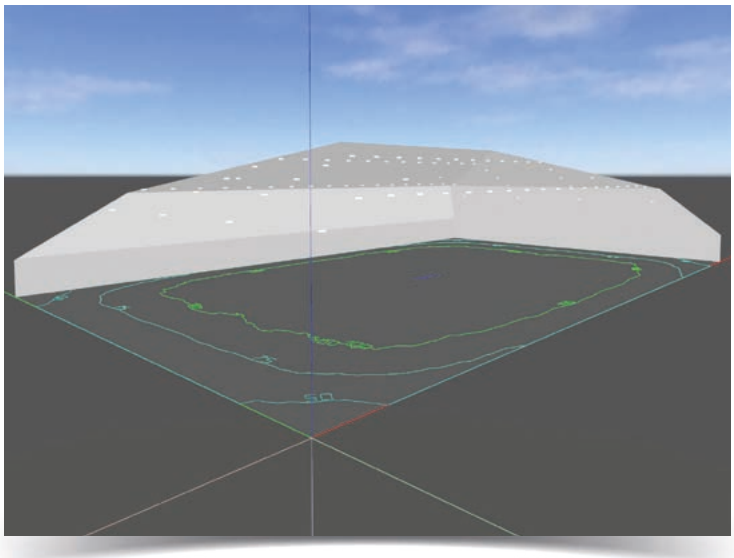
- Emergency lighting with only 4x podis® LED 2 klm
- Simple, pluggable installation
- Power consumption only 80 W
- Pluggable with ready-to-connect central battery podis® USV
- 24 V installation for increased safety, such as for inflammable goods

podis®LED 2 klm – example for application in hall lighting



Hall 120 x 20 x 5 m
with podis®LED 2000 lm

- Highly uniform lighting
- Full-spectrum lights for animal husbandry
- Power consumption only 760 W
- Corrosion resistant housing
- Hygienic characteristics: housing has no cooling fins, is easy to clean



Air-supported hall 25 x 45 x 10 m
with podis®LED 2000 lm

- Highly uniform lighting
- Low weight
- Power consumption only 1600 W
- Medium lighting intensity 100 lx
- No flickering

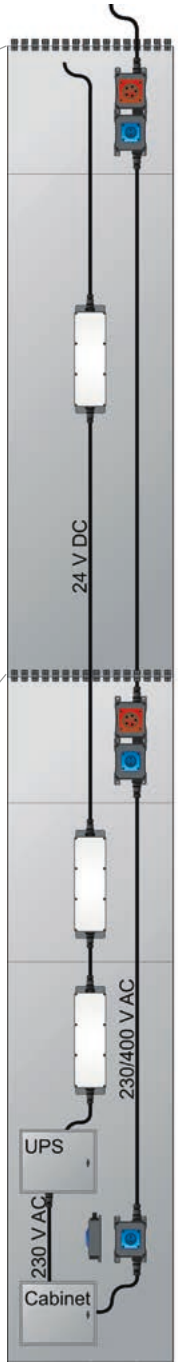
podis® LED 2 klm – perfect for use in wind turbines

podis® LED 2 klm is the reliable lighting solution for use in harsh environments. With robust housing and protection to IP 68 / IP 69K, these maintenance-free, durable lights are especially suited for illuminating work areas, stairs/ladders and for emergency lighting in the tower and nacelle.

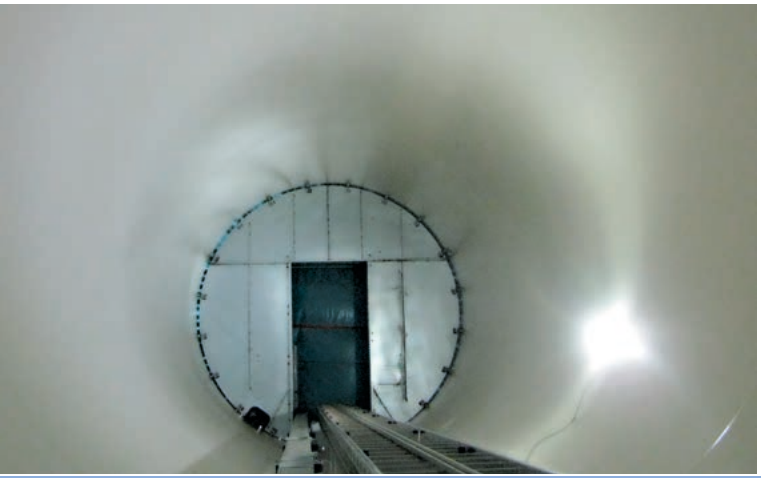
Features:

- 24 V DC and 230 V AC connection voltage
- Flat cable connection podis® FCS 7-pole
- Round cable connection gesis® RST®
- Spherical light distribution
- Directed light distribution with Optic+
- Compact housing, about 300 x 100 x 85 mm
- Robust design
- Wide operating temperature range
- Low power consumption
- Ideal for battery-powered emergency lighting
- Tested corrosion resistance
- Housing with no cooling fins
- High security against failure (24 V)

UNIQUE:
only one light per tower section



Example of light distribution for emergency lighting in a tower segment



LED lights 20 W, 24 V DC, FCS

podisLED light FCS 24 V DC 20 W

podisLED FCS 24 V DC 20 W; energy-saving LED light; pluggable to flat cable outlet (Art.No. 75.015.5153.1); for industrial environments (e.g., wind turbines, shafts, machines), work areas and as emergency lighting per DIN 60598-2-22; installation at any location; typically 2000 lm; 15...32 V DC; 17.5 W; daylight white, 6500 K; with reverse polarity, overload and short-circuit protective device; protection to IP 65; operating temperature -40...+55 °C; DIN 60598-1

Name	Type	Art.No.
podisLED light	**FCS 24 V DC 20W**	83.240.0110.0

Technical data	
Min. nominal voltage	15 V DC
Max. nominal voltage	32 V DC
Lamp	LED
Lamp power	17.5 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	55 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Locking plug-in connection
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP65
Power supply connection	Plug-in connection podis® CON
W x H x D (mm) on FCS 4 7 SI BU	300 x 149 x 100
Approvals	c UL us

podisLED light FCS 24 V DC 20 W EMR

podisLED FCS 24 V DC 20 W; energy-saving LED light with integrated optics; pluggable to flat cable outlet (Art.No. 75.015.5153.1); for industrial environments (e.g., wind turbines, shafts, machines), work areas and as emergency lighting per DIN 60598-2-22; installation at any location; typically 1900 lm; 15...32 V DC; 17.5 W; daylight white, 6500 K; with reverse polarity, overload and short-circuit protective device; protection to IP 65; operating temperature -40...+55 °C; DIN 60598-1

Name	Type	Art.No.
podisLED light	**FCS 24 V DC 20W EMR**	83.240.1110.0

Technical data	
Min. nominal voltage	15 V DC
Max. nominal voltage	32 V DC
Lamp	LED
Lamp power	17.5 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	55 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Locking plug-in connection
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP65
Power supply connection	Plug-in connection podis® CON
W x H x D (mm) on FCS 4 7 SI BU	300 x 149 x 100
Approvals	c UL us

LED lights 20 W, 24 V DC, RST

podisLED light RST 24 V DC 20 W

podisLED RST 24 V DC 20 W; energy-saving LED light; connection via opposing, locking round connector RST20i2, brown coding; for industrial environments (e.g., wind turbines, shafts, machines), work areas and as emergency lighting per DIN 60598-2-22; installation at any location; typically 2000 lm; 15...32 V DC; 17.5 W; daylight white, 6500 K; with reverse polarity, overload and short-circuit protective device; protection to IP 65; operating temperature -40...+55 °C; DIN 60598-1

Name	Type	Art.No.
podisLED light	**RST 24 V DC 20W**	83.240.0130.0

Technical data	
Min. nominal voltage	15 V DC
Max. nominal voltage	32 V DC
Lamp	LED
Lamp power	17.5 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	55 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Locking plug-in connection
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP68/69K
Power supply connection	Plug-in connection gesis® RST20i2
W x H x D (mm)	347 x 83 x 100
Approvals	cULus

podisLED light RST 24 V DC 20 W EMR

podisLED RST 24 V DC 20 W LS; energy-saving LED light with integrated optics. Connection via opposing, locking round connector RST20i2, brown coding, optimized for lighting long, narrow spaces such as towers, shafts, passageways, tunnels, especially as emergency lighting per DIN 60598-2-22; installation at any location; 15…32 V DC; 20 W; typically 1900 lm; daylight white, 6500 K; with reverse polarity, overload and short-circuit protective device; protection to IP 65; operating temperature -40...+55 °C; DIN 60598-1

Name	Type	Art.No.
podisLED light	**RST 24 V DC 20W EMR**	83.240.1130.0

Technical data	
Min. nominal voltage	15 V DC
Max. nominal voltage	32 V DC
Lamp	LED
Lamp power	17.5 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	55 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Locking plug-in connection
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP68/69K
Power supply connection	Plug-in connection gesis® RST20i2
W x H x D (mm)	347 x 83 x 100
Approvals	cULus

LED lights 20 W, 90/250 V AC, FCS

podisLED light FCS 90-250 V AC 20 W

podisLED FCS 90-250 V AC 20 W; energy-saving LED light; pluggable to flat cable outlet (Art.No. 75.015.5153.1); for industrial environments (e.g., wind turbines, shafts, machines), work areas and as emergency lighting per DIN 60598-2-22; installation at any location; typically 2000 lm; 90...250 V AC; 20 W; daylight white, 6500 K; integrated fuse; protection to IP 65; operating temperature -40...55 °C; DIN 60598-1

Name	Type	Art.No.
podisLED light	**FCS 90-250 V AC 20 W**	83.241.0110.0

Technical data	
Min. nominal voltage	90 V AC
Max. nominal voltage	250 V AC
Lamp	LED
Lamp power	20 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	55 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Locking plug-in connection
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP65
Power supply connection	Plug-in connection podisCON
W x H x D (mm) on FCS 4 7 SI BU	300 x 149 x 100

podisLED light FCS 90-250 V AC 20 W EMR

podisLED FCS 90-250 V AC 20 W EMR; energy-saving LED light with integrated optics; pluggable to flat cable outlet (Art.No. 75.015.5153.1); for industrial environments (e.g., wind turbines, shafts, machines), work areas and as emergency lighting per DIN 60598-2-22; installation at any location; typically 2000 lm; 90...250 V AC; 20 W; daylight white, 6500 K; integrated fuse; protection to IP 65; operating temperature -40...55 °C; DIN 60598-1

Name	Type	Art.No.
podisLED light	**FCS 90-250 V AC 20 W EMR**	83.241.1110.0

Technical data	
Min. nominal voltage	90 V AC
Max. nominal voltage	250 V AC
Lamp	LED
Lamp power	20 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	55 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Locking plug-in connection
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP65
Power supply connection	Plug-in connection podisCON
W x H x D (mm) on FCS 4 7 SI BU	300 x 149 x 100

LED lights 20 W, 90/250 V AC, RST

podisLED light RST 90-250 V AC 20 W

podisLED RST 90-250 V AC 20 W; energy-saving LED light; connection via opposing, locking round connector RST20i3, black coding; for industrial environments (e.g., wind turbines, shafts, machines), work areas and as emergency lighting per DIN 60598-2-22; installation at any location; typically 2000 lm; 90...250 V AC; 20 W; daylight white, 6500 K; integrated fuse; protection to IP 68 / IP 69K; operating temperature -40...55 °C; DIN 60598-1

Name	Type	Art.No.
podisLED light	**RST 90-250 V AC 20 W**	83.241.0130.0

Technical data	
Min. nominal voltage	90 V AC
Max. nominal voltage	250 V AC
Lamp	LED
Lamp power	20 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	55 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Locking plug-in connection
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP68/69K
Power supply connection	Plug-in connection **gesis** RST20i3
W x H x D (mm)	347 x 83 x 100

podisLED light RST 90-250 V AC 20 W EMR

podisLED RST 90-250 V AC 20 W EMR; energy-saving LED light with integrated optics; connection via opposing, locking round connector RST20i3, black coding; optimized for lighting long, narrow spaces such as towers, shafts, passageways, tunnels, especially as emergency lighting per DIN 60598-2-22; installation at any location; typically 1900 lm; 90...250 V AC; 17.5 W; daylight white, 6500 K; integrated fuse; protection to IP 68 / IP 69K; operating temperature -40...55 °C; DIN 60598-1

Name	Type	Art.No.
podisLED light	**RST 90-250 V AC 20 W EMR**	83.241.1130.0

Technical data	
Min. nominal voltage	90 V AC
Max. nominal voltage	250 V AC
Lamp	LED
Lamp power	20 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	55 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Locking plug-in connection
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP68/69K
Power supply connection	Plug-in connection **gesis** RST20i3
W x H x D (mm)	347 x 83 x 100

LED lights 20 W, 90/250 V AC, RST

podisLED light
RST 90-250 V AC 20 W 45C8

podisLED RST 90-250 V AC 20 W 45C8; energy-saving LED light with integrated optics and high color rendering index; connection via opposing, locking round connector RST20i3, black coding; optimized for lighting workplaces in industrial environments, also as emergency lighting per DIN 60598-2-22; installation at any location; typically 1700 lm; 90...250 V AC; 17.5 W; daylight white, 5000 K; CRI >80; integrated fuse; protection to IP 68 / IP 69K; operating temperature -40...55 °C; DIN 60598-1

Name	Type	Art.No.
podisLED light	**RST 90-250V AC 20W 45C8**	83.241.2130.6

Technical data	
Min. nominal voltage	90 V AC
Max. nominal voltage	250 V AC
Lamp	LED
Lamp power	20 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	5000 K, CRI >80
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	55 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Locking plug-in connection
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP68/69K
Power supply connection	Plug-in connection **gesis** RST20i3
W x H x D (mm)	347 x 83 x 100

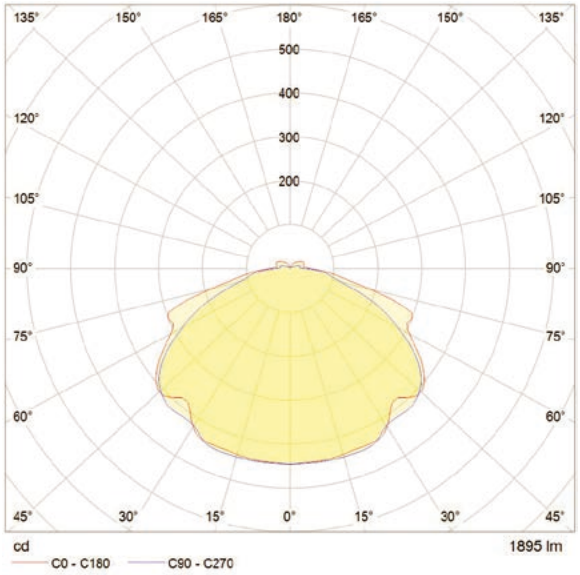
podisLED light
RST 100-240 V AC 20 W LS U

podisLED RST 100-240 V AC 20 W LS U; energy-saving LED light with UL approval; connection via opposing, locking round connector RST20i3, black coding; optimized for lighting work areas in industrial environments, also as emergency lighting per DIN 60598-2-22; installation at any location; typically 1700 lm; 100...240 V AC; 17.5 W; daylight white, 6500 K; integrated fuse; protection to IP 68 / IP 69K; operating temperature -40...55 °C; DIN 60598-1, UL category code QOVZ, IFAM; UL 153, UL 8750, UL 1598, CSA C22.2 no. 250.0

Name	Type	Art.No.
podisLED light	**RST 100-240V AC 20W LS U**	99.800.0624.5

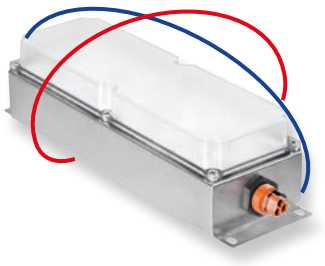
Technical data	
Min. nominal voltage	100 V AC
Max. nominal voltage	240 V AC
Lamp	LED
Lamp power	20 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	55 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Locking plug-in connection
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP68/69K
Power supply connection	Plug-in connection **gesis** RST20i3
W x H x D (mm)	347 x 83 x 100
Approvals	UL

Optical characteristics, *podis*®LED 20 W



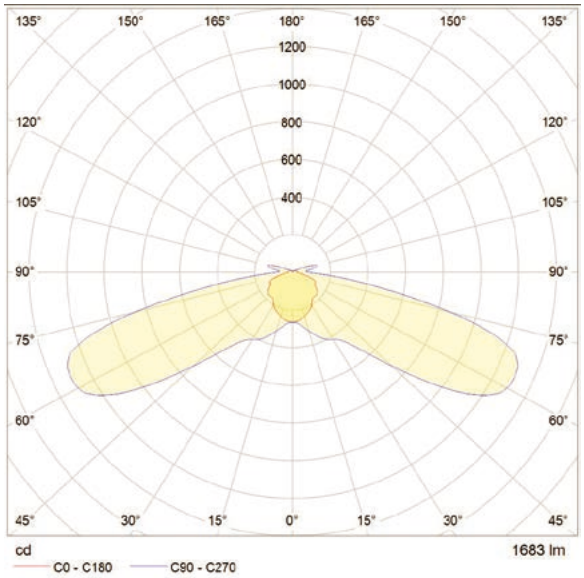
Light distribution curve, standard uniform and wide-area lighting of the environment

Light distribution curve for Art.No.:
83.240.0110.0
83.240.0130.0
83.241.0110.0
83.241.0130.0



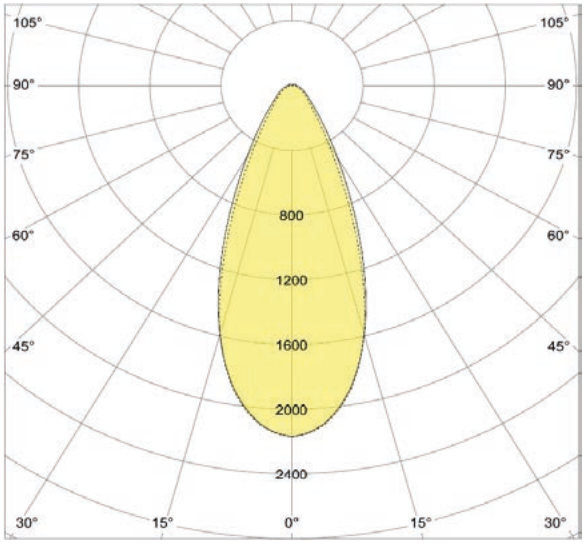
0...180°

90...270°



Light distribution curve, Optic+ (EMR) oval, stretched light curve, optimized for emergency exits, shafts, towers, tunnels and passageways

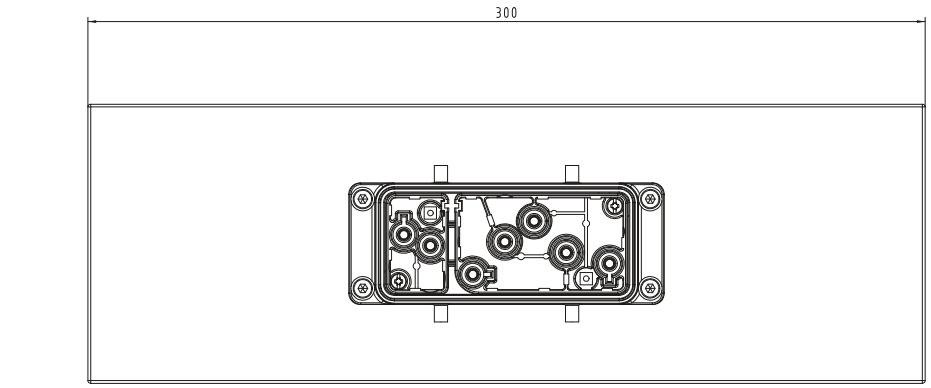
Light distribution curve for Art.No.:
83.240.1110.0
83.240.1130.0
83.241.1110.0
83.241.1130.0



Light distribution curve, Optic+ (45) focused light cone, optimized for work areas, machine lighting

Light distribution curve for Art.No.:
83.241.2130.6

Dimensions, *podis*®LED 20 W



Entries in mm,
applies to Art.No.:
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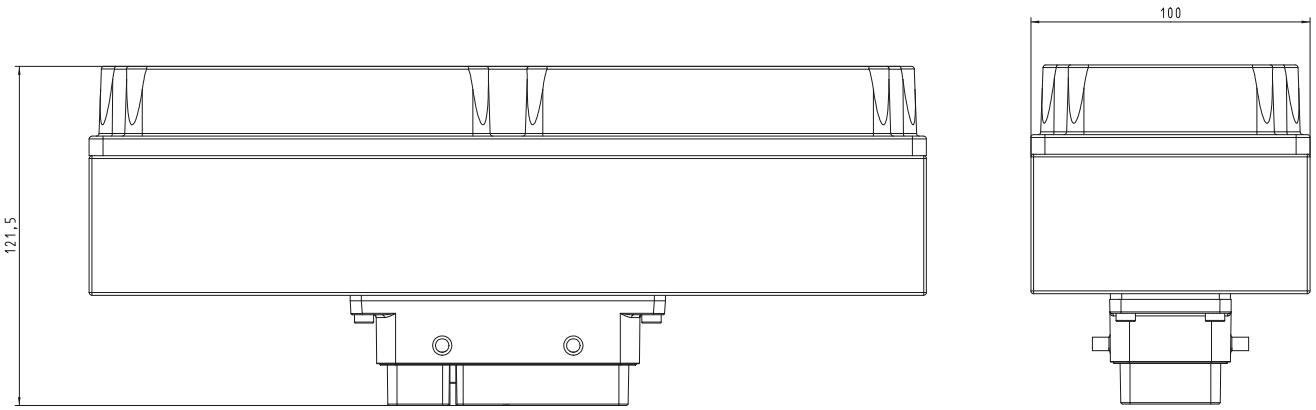
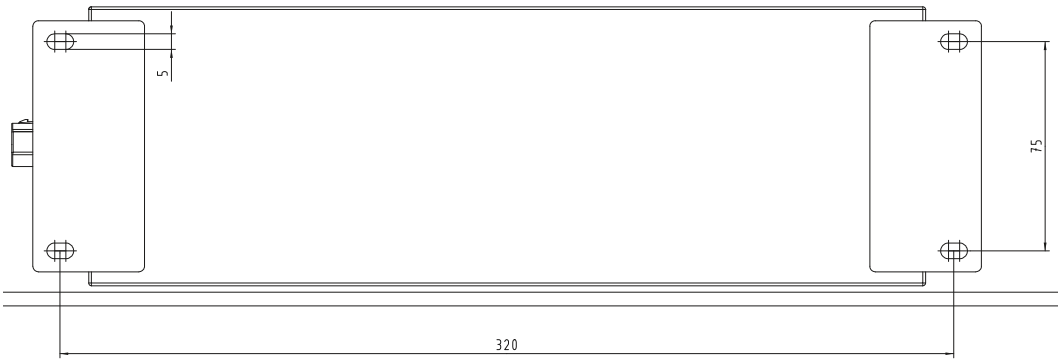
83.241.0110.0
83.240.1110.0
83.241.1110.0





Entries in mm,
applies to Art.No.:
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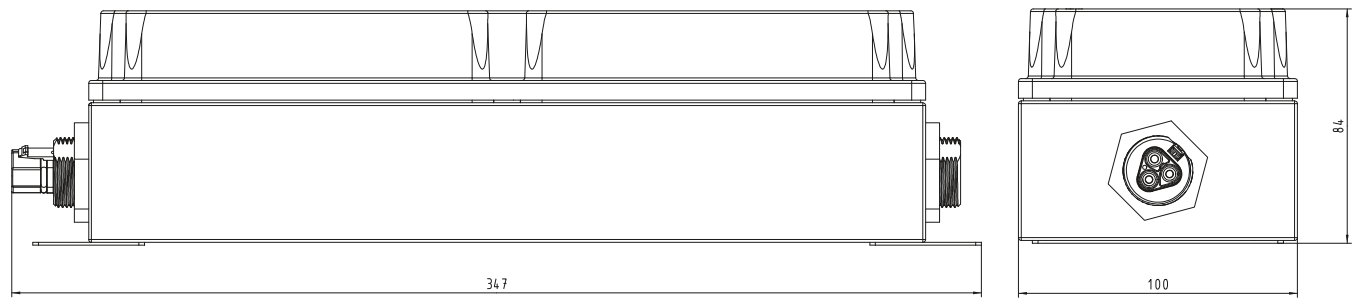
83.240.1130.0
83.241.1130.0
83.241.2130.6
99.000.0624.5



Product overview

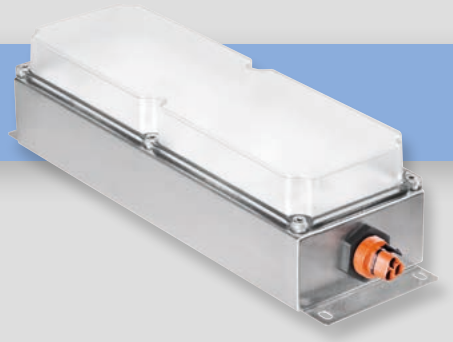
20 W

FCS

24 V DC
83.240.0110.0
83.240.1110.0 Optic+ EMR

230 V AC
83.241.0110.0
83.241.1110.0 Optic+ EMR

RST



24 V DC
83.240.0130.0
83.240.0131.0 Connections on one side
83.240.1130.0 Optic+ EMR

230 V AC
83.241.0130.0
83.241.1130.0 Optic+ EMR
83.241.2130.6 Optic+ 45, CRI >80
99.800.0624.5 UL approval

5 W

FCS

24 V DC
83.240.0010.0
83.240.0011.0 RST 20i2 out

230 V AC
83.241.0020.0

RST

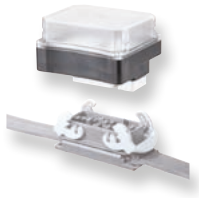
24 V DC
83.240.0030.0
83.240.0031.1 Connections on one side
83.240.0030.9 Light color: green

230 V AC
83.241.0040.0

LED lights 5 W, 24 V DC, FCS

podisLED light FCS 24 V DC 5 W

podisLED FCS 24 V DC 5 W; energy-saving LED light pluggable to flat cable outlet (Art.No. 75.015.5153.1); for harsh industrial environments (e.g., wind turbines), and as emergency lighting per DIN 60598-2-22; installation at any location; 15...32 V DC; 5 W; daylight white, typically 400 lm; daylight white, 6500 K; with reverse polarity, overload and short-circuit protective device; protection to IP 65; operating temperature -40...70 °C; DIN 60598-1



Name	Type	Art.No.
podisLED light	**FCS 24 V DC 5W**	83.240.0010.0

Technical data	
Min. nominal voltage	15 V DC
Max. nominal voltage	32 V DC
Lamp	LED
Lamp power	4.9 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	70 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Locking plug-in connection
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP65
Power supply connection	Plug-in connection podisCON
W x H x D (mm)	124 x 104 x 136
Approvals	

podisLED light FCS 24 V DC 5 W / RST 20i2

podisLED FCS 24 V DC 5 W RST20i2; energy-saving LED light pluggable to flat cable outlet (Art.No. 75.015.5153.1); with additional female RST 20i2 connector (brown coding) for connection of detached lights, for harsh industrial environments (e.g., wind turbines), and as emergency lighting per DIN 60598-2-22; installation at any location; 15...32 V DC; 5 W; daylight white, typically 400 lm; daylight white, 6500 K; with reverse polarity, overload and short-circuit protective device; protection to IP 65; operating temperature -40...70 °C; DIN 60598-1

Name	Type	Art.No.
podisLED light	**FCS 24 V DC 5W/ RST20I2**	83.240.0011.0

Technical data	
Min. nominal voltage	15 V DC
Max. nominal voltage	32 V DC
Lamp	LED
Lamp power	4.9 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	70 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Locking plug-in connection
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP65
Power supply connection	Plug-in connection podisCON
W x H x D (mm)	124 x 104 x 136
Approvals	

LED lights 24 V DC, 5 W, RST, MIN

podisLED light RST 24 V DC 5 W

podisLED RST 24 V DC 5 W; energy-saving LED light, connection via opposing, locking round connector RST20i2, coding brown; for harsh industrial environments (e.g., wind turbines), and as emergency lighting per DIN 60598-2-22; installation at any location; 15...32 V DC; 5 W; daylight white, typically 400 lm; daylight white, 6500 K; with reverse polarity, overload and short-circuit protective device; protection to IP 65; operating temperature -40...70 °C; DIN 60598-1

Name	Type	Art.No.
podisLED light	**RST 24V DC 5W**	83.240.0030.0

Technical data	
Min. nominal voltage	15 V DC
Max. nominal voltage	32 V DC
Lamp	LED
Lamp power	4.9 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	70 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Wall mounting
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP68/69K
Power supply connection	Plug connection RST20i2
W x H x D (mm)	124 x 104 x 96
Approvals	cULus

podisLED light RST 24 V DC 5 W 1S

podisLED RST 24 V DC 5 W 1S; energy-saving LED light, connection via round connector RST20i2 positioned on same side, coding brown; for harsh industrial environments (e.g., wind turbines), and as emergency lighting per DIN 60598-2-22; installation at any location; 15...32 V DC; 5 W; daylight white, typically 400 lm; daylight white, 6500 K; with reverse polarity, overload and short-circuit protective device; protection to IP 65; operating temperature -40...70 °C; DIN 60598-1

Name	Type	Art.No.
podisLED light	**RST 24V DC 5W 1S**	83.240.0031.1

Technical data	
Min. nominal voltage	15 V DC
Max. nominal voltage	32 V DC
Lamp	LED
Lamp power	5 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	70 °C
Standards	DIN EN 60598-1
Mounting method	Wall mounting
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP68/69K
Power supply connection	Plug connection RST20i2
W x H x D (mm)	161 x 104 x 96
Approvals	cULus

podisLED light MIN 24 V DC 5 W

podisLED MIN 24 V DC 5 W; energy-saving LED light, connection via locking male connector revos MINI Q5; for harsh industrial environments (e.g., wind turbines), and as emergency lighting per DIN 60598-2-22; installation at any location; 15...32 V DC; 5 W; daylight white, typically 400 lm; daylight white, 6500 K; with reverse polarity, overload and short-circuit protective device; protection to IP 65; operating temperature -40...70 °C; DIN 60598-1

Name	Type	Art.No.
podisLED light	**MIN 24V DC 5W**	83.240.0050.0

Technical data	
Min. nominal voltage	15 V
Max. nominal voltage	32 V
Lamp	LED
Lamp power	4.9 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	70 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Wall mounting
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP65
Power supply connection	Plug-in connection revos MINI Q5
W x H x D (mm)	124 x 125 x 96
Approvals	cULus

LED lights 5 W, 70-250 V AC, RST

podisLED light FCS 70-250 V AC 5 W

podisLED FCS 70-250 V AC 5 W; energy-saving LED light, pluggable to flat cable outlet (Art.No. 75.015.5153.1); for harsh industrial environments (e.g., wind turbines), and as emergency lighting per DIN 60598-2-22; installation at any location; 70...250 V AC; 5 W; daylight white, typically 400 lm; daylight white, 6500 K; with reverse polarity, overload and short-circuit protective device; protection to IP 65; operating temperature -40...+55 °C; DIN 60598-1

Name	Type	Art.No.
podisLED light	**FCS 70-250 V AC 5W**	83.241.0020.0

Technical data	
Min. nominal voltage	70 V AC
Max. nominal voltage	250 V AC
Contacting phase	L1
Lamp	LED
Lamp power	5 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	55 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Locking plug-in connection
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP65
Power supply connection	Plug-in connection podis CON
W x H x D (mm)	124 x 104 x 136

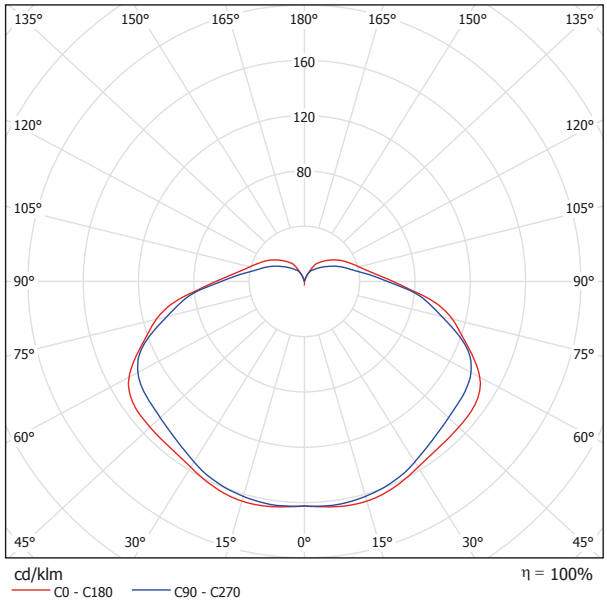
podisLED light RST 70-250 V AC 5 W

podisLED RST 70-250 V AC 5 W; energy-saving LED light, connection via opposing, locking round connector RST20i3, coding black; for harsh industrial environments (e.g., wind turbines), and as emergency lighting per DIN 60598-2-22; installation at any location; 70...250 V AC; 5 W; daylight white, typically 400 lm; daylight white, 6500 K; with reverse polarity, overload and short-circuit protective device; protection to IP 65; operating temperature -40...+55 °C; DIN 60598-1

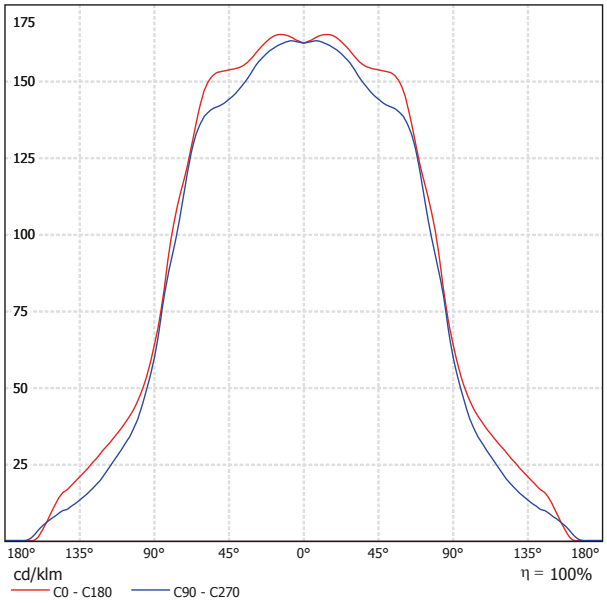
Name	Type	Art.No.
podisLED light	**RST 70-250 V AC 5W**	83.241.0040.0

Technical data	
Min. nominal voltage	70 V AC
Max. nominal voltage	250 V AC
Lamp	LED
Lamp power	5 W
Fuse	Device fuse
Reverse polarity protection	Yes
Emergency lighting characterization	Z 1 ***D
Light color	6500 K
Ambient operating temperature ta min.	-40 °C
Ambient operating temperature ta max.	55 °C
Standards	DIN EN 60598-1, DIN EN 60598-2-22
Mounting method	Wall mounting
Wiring system	Operation circuit / standby circuit
Degree of protection (IP)	IP68/69K
Power supply connection	Plug connection RST20i3 black
W x H x D (mm)	124 x 104 x 96

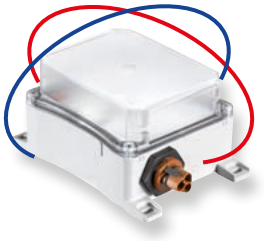
Optical characteristics, *podis*®LED 5 W



Light distribution curve, radial



Light distribution curve, orthogonal



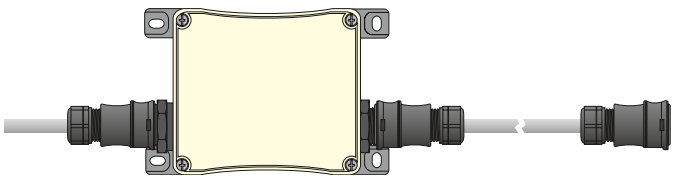
0...180°

90...270°

Recommended installation position

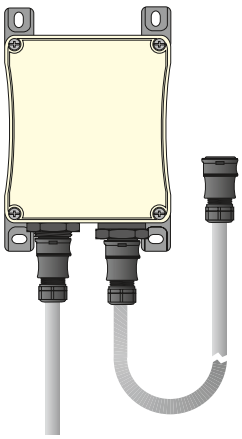
Horizontal installation

Applicable to Art.No.:
83.240.0030.0
83.241.0040.0



Vertical installation

Applicable to Art.No.:
83.240.0031.1

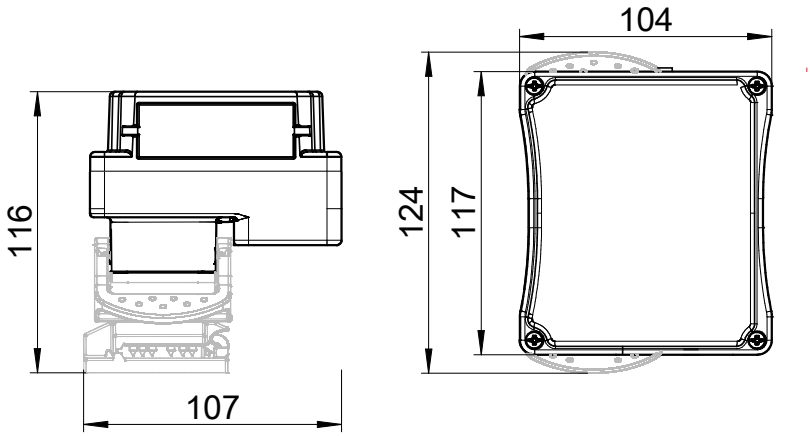


Note:

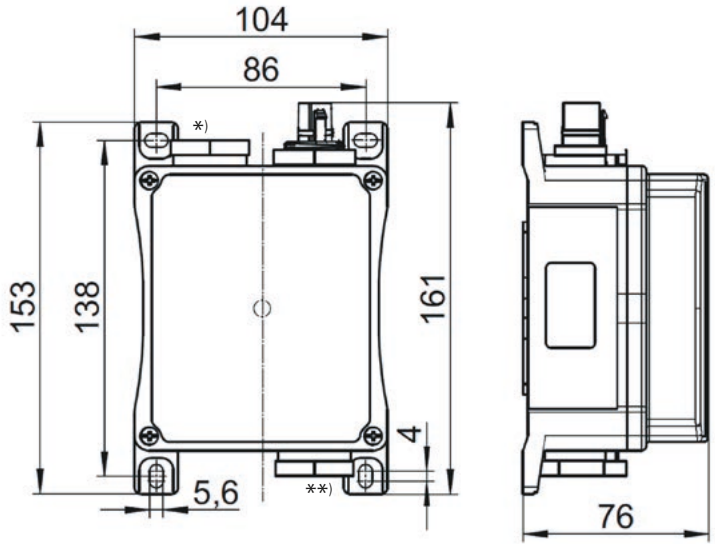
Install the ***podis*** ® LED with the RST connections downward as displayed in these illustrations, to prevent the likelihood of water penetrating.

Dimensions, *podis*®LED 5 W

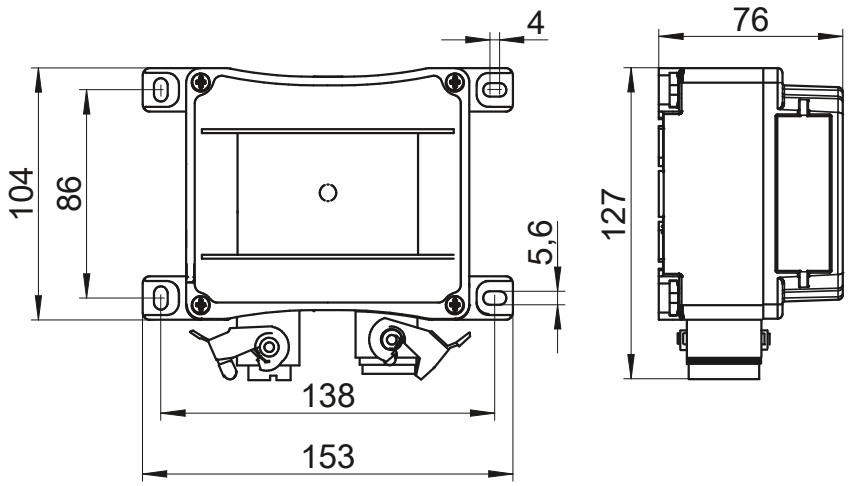
Entries in mm, applies to Art.No.:
83.240.0010.0
83.240.0011.0
83.241.0020.0



Entries in mm, applies to Art.No.:
83.240.0030.0**)
83.240.0031.1*)
83.241.0040.0**)



Entries in mm, applies to Art.No.:
83.240.0050.0



Connections

Applicable to Art.No.:
83.240.0011.0 (output)
83.240.0030.0
83.240.0031.1

Connection allocation	
Male connection type	RST 20i2
Color coding	Brown
0 V	1
24 V	2

Applicable to Art.No.:
83.240.0011.0 (output)
83.240.0030.0
83.240.0031.1

Connection allocation	
Male connection type	RST 20i3
Color coding	Black
70…230 V	L
N	N
PE	PE

Connection RST20i2 female, brown

Connection RST20i3 female, black

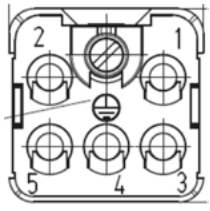
Connection RST20i2 male, brown

Connection RST20i3 male, black

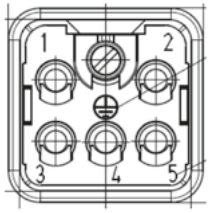
Applicable to Art.No.:
83.240.0050.0

Connection allocation	
Male connection type	***revos***MINI, 5-pole + PG
Connections	Crimp
+24 VDC	1
0 V	2
+ line	3
nc	4
- line	5
nc	PE

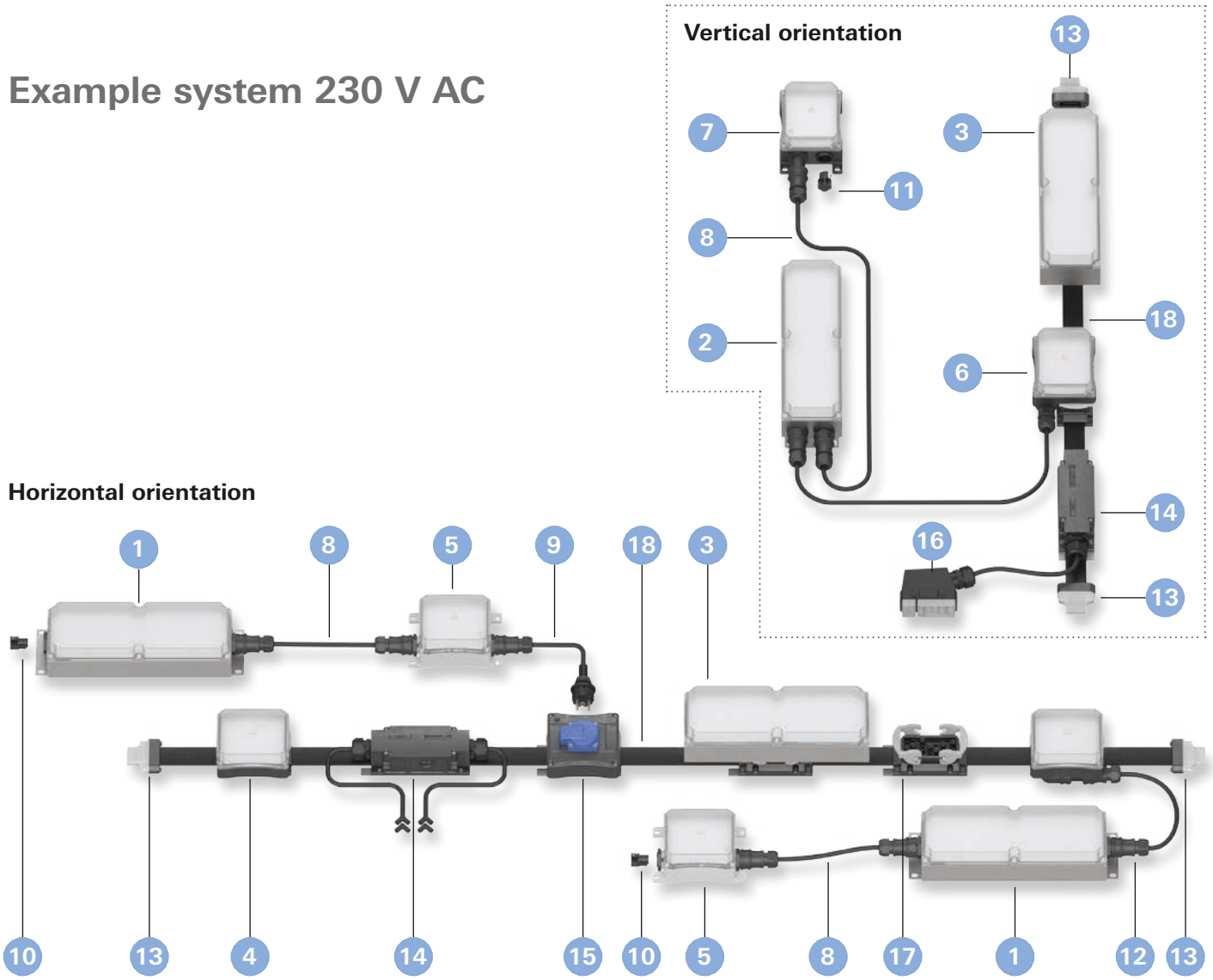
Female insert connections MIN BUC 5 25 AG



Male insert connections MIN BUC 5 25 AG

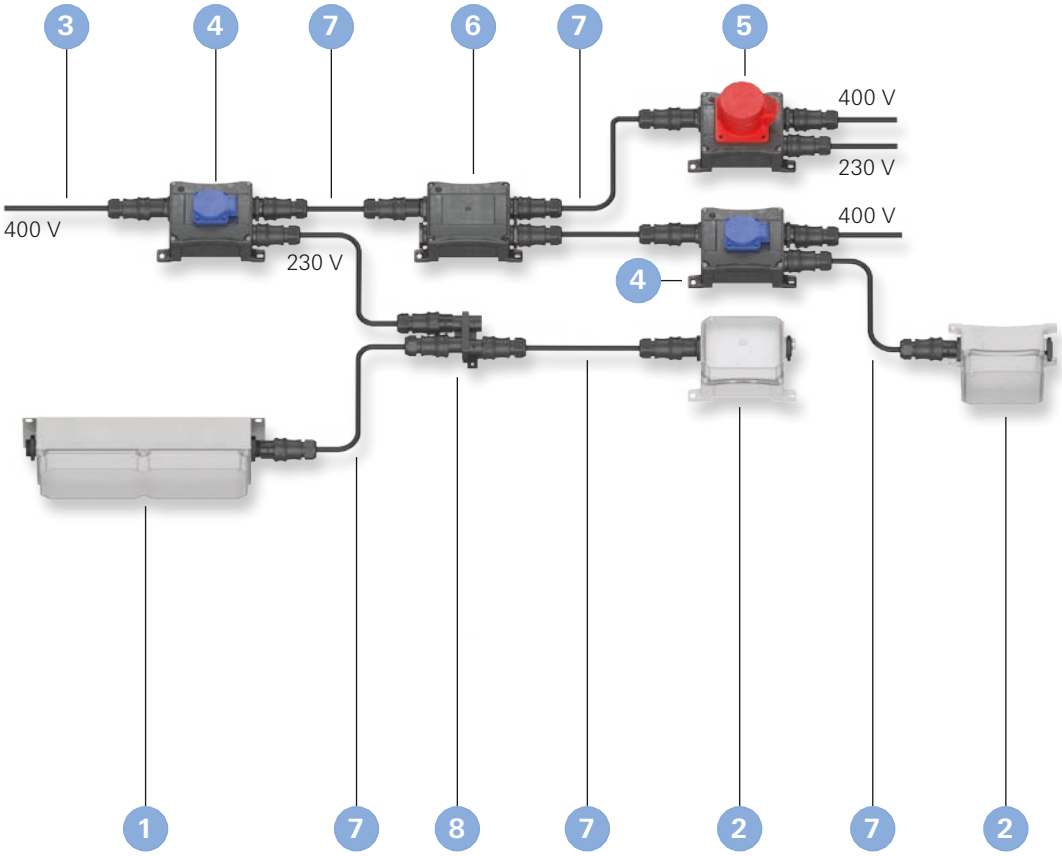


Example system 230 V AC



No.	Product	Item no.
1	***podis*** LED **RST 24 V DC 20 W**	83.240.0130.0
2	***podis*** LED **RST 24 V DC 20 W**	83.240.0131.0
3	***podis*** LED **FCS 24 V DC 20 W**	83.240.0110.0
4	***podis*** LED **FCS 24 V DC 5 W**	83.240.0010.0
5	***podis*** LED **RST 24 V DC 5 W**	83.240.0030.0
6	***podis*** LED **FCS 24 V DC 5 W / RST 20i2**	83.240.0011.0
7	***podis*** LED **RST 24 V DC 5 W 1S**	83.240.0031.1
8	Connection cable female-male, RST 20i3	96.232.x000.1
9	Connection cable Schuko 2.5 m - RST 20i3	99.715.0000.7
10	Cover cap RST 2- to 3-pole, light gray	99.413.6205.2
11	Cover cap RST 2- to 3-pole, black	99.414.6205.2
12	Connection cable male-female, RST 20i2	96.223.x092.4
13	Cable end cap	Z5.562.7553.1
14	Connecting module FCS 4 7 SI FK	75.018.0051.2
15	***podis*** CON socket FCS CEE7/4 230 V 16 A 3P	83.315.0001.1
16	***podis*** CON male connector FCS 4.0 7 ST SA;	75.015.0151.0
17	Flat cable outlet FCS 4 7 SI BU	75.015.5153.1
18	Flat cable EVA 7G4 BLACK	00.709.0504.1

Example system 230 V AC, RST



No.	Product	Item no.
1	***podis*** LED **RST 24 V DC 20 W**	83.241.0130.0
2	***podis*** LED **FCS 24 V DC 5 W**	83.241.0040.0
3	Connection cable female - free end, RST 25i5 BG	96.854.xx03.3
4	***podis*** CON socket RST CEE7/4 250 V 16 A 3P	83.315.0101.0
5	***podis*** CON socket RST CEE6H 400 V16 A 3P	83.315.0102.0
6	RST compact distribution terminal, RST 25i5	Upon request
7	Connection cable female-male, RST 20i3 BG	96.854.xx00.3
8	Distribution terminal block RST 20i3	96.030.0153.1
9	Connection cable female-male, RST 20i3	96.233.x000.1
10	Cover cap RST 4- to 5-pole, black	99.530.0000.7
11	Cover cap RST 2- to 3-pole, black	99.414.6205.2

Uninterrupted Power Supply (UPS) for emergency lighting

Using the ***podis*** ® LED reduced total load and simplified cable routing make for the cost-effective use of compact, central uninterrupted power supplies.

Customer requirements as regards country-specific buffer times for the emergency lighting and ambient temperatures can be taken into account when designing the power supply.

Wieland offers pre-assembled, pluggable circuit cabinet solutions specially matched to its installation systems. They can be installed as self-sufficient, detached circuit cabinets or be integrated into the switching system.

The ***podis*** ® LED lighting components from Wieland are especially suited for use in emergency lighting systems. Because of their robust, durable design, they offer a high degree of safety, even in emergency situations.

Now, with the ***podis*** ® UPS, we are augmenting the emergency lighting system with a central power supply unit which is ready for the high demands of operation in industrial plants. Thereby the ***podis*** ® offers the convenience of maintaining and monitoring just one battery unit without having to lay additional cables for the lights. With ***podis*** ® LED , operating and emergency lighting are installed in a single cable bundle.

The ***podis*** ® UPS does not need the high level of maintenance individual batteries call for. The batteries can be conveniently tested and the test logbook filled in from one place. Battery failures can be reported to the service station via potential-free message outputs.

Features of the *podis*® UPS:

- Deep discharge protection
- Protection against overcharging
- Test switch (normal/UPS operation)
- Capable of remote communication via potential-free output
- Adjustable output voltage
- Wide operating temperature range
- Customized battery capacity

Signal: Battery failure

Confirm battery discharging signal

Switch: I/O test

DC output plug-in connections

Mains connection

Layout of the *podis*® UPS:

Installation length

Number of lights

Load, power

Emergency lighting duration

Operating temperature range

Heating, cooling

A system that meets all the requirements.

Advantages

- Project-specific development and fabrication
- Procurement of modules that are ready to connect instead of individual components
- Packaging and delivery with the required installation material, e.g., cable, lights,...

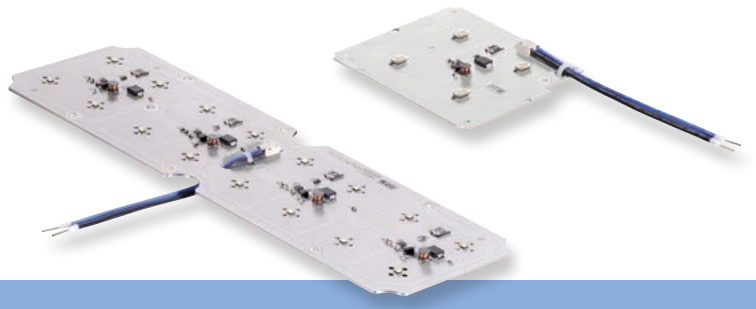
Technical data		
Input voltage	24 V DC	230 V AC
Battery capacity	2.2 Ah, 7.2 Ah, 12 Ah, 15 Ah, 24 Ah, 30 Ah	
Display	Battery charge, DC In OK, Battery discharge, Battery fail	
Operating temperature range	-40 °C, -20 °C,…	… +45 °C, +55 °C
Diagnostics	Indicator LED	Signal output relay
Connections	***gesis*® RST®**	***revos*** MINI

podis® LED PCB – the reliable lighting solution for your own system

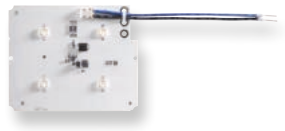
podis® LED PCB is the easy way to integrate the reliable lighting solution podis® LED into your system.
Optimized for use in harsh industrial environments, these durable, long-lasting lamps are especially suited for lighting work areas and passageways in machines and systems.

Lamp for installing in lights for:

- Machines and systems
- Elevator cages, nacelles
- Tunnels, passageways, emergency exits
- Temporary structures, shipbuilding, etc.
- Agricultural systems
- Horticulture/greenhouses, etc.
- Pathway and street lighting
- Event equipment
- Off-grid lighting systems
- And much more...



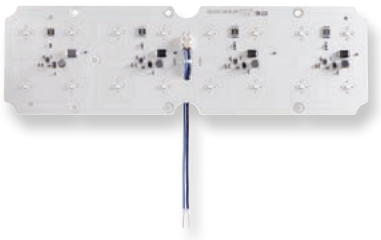
podisLED PCB 5W GD



Name	Type	Art.No.
podisLED PCB	5W GD	99.800.1850.2

Technical data	
Connected load	4.8 W
Operating current 24 V DC	0.2 A
Beam angle at 50% Iv (2I full angle)	170°
Connection voltage	15…32 V DC
Light color	6500 K
Light flux, typical[1)]	450 lm
LED operating current	350 mA
Reverse polarity protection	Diode and fuse
Mode	Constant current
Dimensions L x W (mm)	100 x 82
Dimensions H (mm)	6.2
EM compatibility	DIN EN 61547: 2010-03
Emitted interference	DIN EN 55015: 2009-11
Climate	DIN EN 60068-2-30: 2006-06

podisLED PCB 20W 15



Name	Type	Art.No.
podisLED PCB	20W 15	Upon request

Technical data	
Connected load	17.5 W
Operating current 24 V DC	0.8 A
Beam angle at 50 % Iv (2I full angle)	150°
Connection voltage	15…32 V DC
Light color	6500 K
Light flux, typical[1)]	2000 lm
LED operating current	350 mA
Reverse polarity protection	Diode and fuse
Mode	Constant current
Dimensions L x W (mm)	286 x 86
Dimensions H (mm)	6.2
EM compatibility	DIN EN 61547: 2010-03
Emitted interference	DIN EN 55015: 2009-11
Climate	DIN EN 60068-2-30: 2006-06

[1)] At 20 °C ambient temperature

podisLED Cover

Name	Type	Art.No.
podisLED Cover	5	Upon request
podisLED Cover	20	Upon request

Technical data	5	20
Dimensions L x W (mm)	117 x 104	300 x 100
Dimensions H (mm)	ca. 33	

Features:

- 24 V DC connection voltage
- Wide light cone opening angle
- Metal core board for excellent thermal properties
- 3-way redundancy on 20 W board
- Compact housing, about 300 x 100 x 85 mm
- Robust design
- Wide operating temperature range
- Low power consumption
- Ideal for battery-powered emergency lighting
- Connection cable 150 mm

Flat cables, cable end cap, distributor module

Flat cable

Name	Type	Art.No.
Flat cable	**EVA 7G4 SCHWARZ**	00.709.0504.1
Technical data		
Approvals		

Flat cable

Name	Type	Art.No.
Flat cable	**XLPE 7G4 SCHWARZ**	00.729.0504.1
Technical data		
Approvals		

Cable end cap

Name	Type	Art.No.
Cable end cap		Z5.562.7553.1
Technical data		
Approvals		

Distributor module FCS 4.0 7 SA SA SW

Name	Type	Art.No.
Distributor module	**FCS 4,0 7 SA SA SW**	75.010.0053.1
Technical data		
Approvals		

Additional *podis*® system components and accessories can be found in the Wieland eCatalog. https://eshop.wieland-electric.com

Connecting module, flat cable outlet

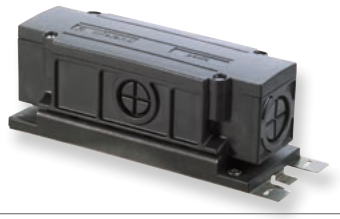
Connecting module FCS 4 7 SI FK

Connecting module 24/480 V, 7-pole

Name	Type	Art.No.
Connecting module	**FCS 4 7 SI FK**	75.018.0051.2

Connecting module FCS 4 7 SI FK FM

Connecting module 24/480 V, 7-pole, with mounting plate for wire tray



Name	Type	Art.No.
Connecting module	**FCS 4 7 SI FK FM**	99.801.4866.1

Connecting module FCS 2.5 2 SI SA SW

Connecting module 24 V, 2-pole (L5, L6)

Name	Type	Art.No.
Connecting module	**FCS 2,5 2 SI SA SW**	75.016.2053.1

Flat cable outlet

Name	Type	Art.No.
Flat cable outlet	**FCS 4 7 SI BU SW**	75.015.5153.1
Technical data		
Approvals	c UL us	

Flat cable outlet

Flat cable outlet with mounting plate for wire tray

Name	Type	Art.No.
Flat cable outlet	**FCS 4 7 SI BU SW FM**	99.800.4866.1
Technical data		
Approvals	c UL us	

Additional *podis*® system components and accessories can be found in the Wieland eCatalog. https://eshop.wieland-electric.com

Pre-assembled cables RST 20i2

Connection cable male - female, RST 20i2

2-pole, 50 V, coding color brown

Cable lengths available from 1…8 m in meter intervals.

Description – cable type	Art.No.
H05VV 2X1,5 mm², 16A	96.222.x002.4
H07RN-F 2X1,5 mm², 16A	96.222.x032.4
Ölflex classic 100 2X1,5 mm², 16A	96.222.x092.4
Ölflex classic 100 2X2,5 mm², 20A	96.223.x092.4

x = cable length (m)

Example: H05VV **3 m** = Art.No. 96.222.**3**002.4

Connection cable male - free end, RST 20i2

2-pole, 50 V / 16 A, coding color brown

Cable lengths available from 1…8 m in meter intervals.

Description – cable type	Art.No.
H05VV 2X1,5 mm², 16A	96.222.x008.4
H07RN-F 2X1,5 mm², 16A	96.222.x038.4
Ölflex classic 100 2X1,5 mm², 16A	96.222.x098.4
Ölflex classic 100 2X2,5 mm², 20A	96.223.x098.4

x = cable length (m)

Example: H05VV **3 m** = Art.No. 96.222.**3**008.4

Connection cable female - free end, RST 20i2

2-pole, 50 V / 16 A, coding color brown

Cable lengths available from 1…8 m in meter intervals.

Description – cable type	Art.No.
H05VV 2X1,5 mm², 16A	96.222.x007.4
H07RN-F 2X1,5 mm², 16A	96.222.x037.4
Ölflex classic 100 2X1,5 mm², 16A	96.222.x097.4
Ölflex classic 100 2X2,5 mm², 20A	96.223.x097.4

x = cable length (m)

Example: H05VV **3 m** = Art.No. 96.222.**3**007.4

Connector RST 20i2

Connector RST 20i2S, brown

With pull relief, 2-pole, screw technology female connector, 50 V/20 A, coding color brown, housing color black

Name	Cable diameter	Art.No.
Connector, female	6-10 mm	96.021.4051.4
Connector, female	10-14 mm	96.021.4151.4
Technical data		
Approvals		

Connector RST 20i2S, brown

With pull relief, 2-pole, screw technology male connector, 50 V/20 A, coding color brown, housing color black

Name	Cable diameter	Art.No.
Connector, male	6-10 mm	96.022.4051.4
Connector, male	10-14 mm	96.022.4151.4
Technical data		
Approvals		

Cover cap RST 2- to 3-pole

To securely close off unnecessary male connectors; nylon cord prevents loss

Name	Art.No.
Cover cap for male connector	99.416.6205.2

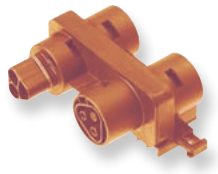
Cover cap RST 2- to 3-pole

To securely close off unnecessary female connectors; nylon cord prevents loss

Name	Art.No.
Cover cap for female connector	99.414.6205.2

Distribution terminal block RST 20i2

2-pole, 1 input, 3 outputs, with type of fastening, 50 V / 20 A, coding color brown



Name	Type	Art.No.
Distribution terminal block	**RST20i2**	96.020.0151.4

Additional *gesis*® system components and accessories can be found in the Wieland eCatalog. https://eshop.wieland-electric.com

Pre-assembled cables RST 20i3

Connection cable female – male, RST 20i3

3-pole, 250 V/16 A, coding color black

Cable lengths available from 1…8 m in meter intervals.

Similar to illustration

Description – cable type	Art.No.
H05VV 3G1,5 mm², 16A	96.232.x000.1
H05VV 3G2,5 mm², 20A	96.233.x000.1
H07RN-F 3G1,5 mm², 16A	96.232.x030.1
H07RN-F 3G2,5 mm², 20A	96.233.x030.1

x = cable length (m)

Example: H05VV **3 m** = Art.No. 96.232.**3**000.1

Connection cable male - free end, RST 20i3

3-pole, 250 V, coding color black

Cable lengths available from 1…8 m in meter intervals.

Similar to illustration

Description – cable type	Art.No.
H05VV 3G1,5 mm², 16A	96.232.x004.1
H05VV 3G2,5 mm², 20A	96.233.x004.1
H07RN-F 3G1,5 mm², 16A	96.232.x034.1
H07RN-F 3G2,5 mm², 20A	96.233.x034.1

x = cable length (m)

Example: H05VV **3 m** = Art.No. 96.232.**3**004.1

Connection cable female - free end, RST 20i3

3-pole, 250 V/16 A, coding color black

Cable lengths available from 1…8 m in meter intervals.

Similar to illustration

Description – cable type	Art.No.
H05VV 3G1,5 mm², 16A	96.232.x003.1
H05VV 3G2,5 mm², 20A	96.233.x003.1
H07RN-F 3G1,5 mm², 16A	96.232.x033.1
H07RN-F 3G2,5 mm², 20A	96.233.x033.1

x = cable length (m)

Example: H05VV **3 m** = Art.No. 96.232.**3**003.1

Pre-assembled cables, connector RST 20i3

Connection cable female – Schuko connector, RST 20i3

3-pole, 250 V/16 A, coding color black

Similar to illustration

Description – cable type	Coding	Art.No.
H07RN-F 3G1,5 mm², 1,5m	Black	99.712.0000.7
H07RN-F 3G1,5 mm², 2,5m	Black	99.713.0000.7

Connector RST 20i3S, black

With pull relief, 3-pole, screw technology female connector, 250 V/20 A, coding color black, housing color black

Name	Cable diameter	Art.No.
Connector, female	6-10 mm	96.031.4053.1
Connector, female	10-14 mm	96.031.4153.1
Technical data		
Approvals		

Connector RST 20i3S, black

With pull relief, 3-pole, screw technology male connector, 250 V/20 A, coding color black

Name	Cable diameter	Art.No.
Connector, male	6-10 mm	96.032.4053.1
Connector, male	10-14 mm	96.032.4153.1
Technical data		
Approvals		

Distribution terminal block RST 20i3

3-pole, 1 input, 3 outputs, with type of fastening, 250 V / 20 A, coding color black

Name	Type	Art.No.
Distribution terminal block	**RST20i3**	96.030.0153.1

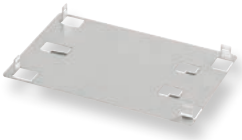
Additional *gesis*® system components and accessories can be found in the Wieland eCatalog. https://eshop.wieland-electric.com

Installation aids

Mounting plate

Mounting plate for easy installation to outside of wire tray with grid 50 x 100 mm; secure fastening with no loose parts (screws, nuts, rivets, etc.); stainless steel

Mounting plate for easy installation of ***podis*** LED 2 klm (20 W) to outside of wire tray with grid 50 x 100 mm; secure fastening with no loose parts (screws, nuts, rivets, etc.); stainless steel



Mounting plate for easy installation to inside of wire tray with grid 50 x 100 mm; secure fastening with no loose parts (screws, nuts, rivets, etc.); stainless steel; 2 pieces per light needed

Name	Art.No.
Mounting plate for RST box	G0.500.2041.5
Applicable to Art.No.: 83.240.0030.0 83.240.0031.1 83.241.0040.0 83.240.0050.0	
Quick-mount plate FCS 20 W	05.560.3319.0
Applicable to Art.No.: 83.240.0130.0 83.240.1130.0 83.241.0130.0 83.241.1130.0 83.241.2130.6 99.800.0624.5	
Quick-mount plate FCS 5 W	05.560.3419.0
Applicable to Art.No.: 83.240.0030.0 83.240.0031.1 83.241.0040.0 83.240.0050.0	

Sample set

Sample set ***podis***® LED

Sample set of prepared components for surface-mounting a functioning unit with ***podis*** LED FCS 24 V; connection via 100...240 V AC power supply unit 24 V DC; with international plug set; extendable with **RST 20i2** brown

Name	Art.No.
Sample set *podis* LED	99.762.0000.0
Power supply unit	99.682.0000.0

Technical consultation and general information

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