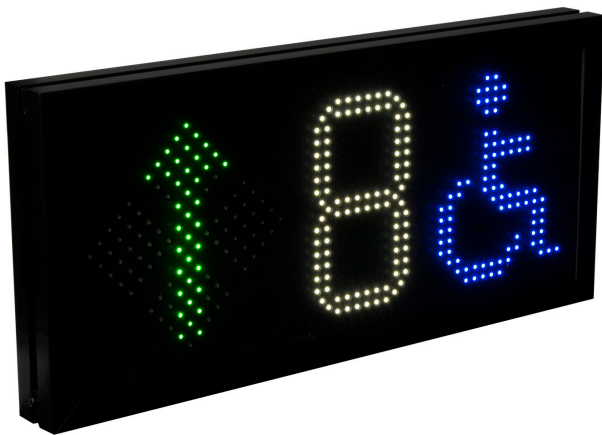


SBPDIS1AxHx



Dupline® Carpark Display



Benefits

- Robust and aesthetic looking display built in aluminium
- Brightly lit green-arrow or red-cross LEDs
- One bright white digit and a blue sign for disabled
- Visible from a distance of more than 50 m
- Automatic brightness control
- Settings are configurable from the configuration software via a simple menu
- Same display for indoor and outdoor use
- Option for heated display with an extended temperature range below -20°C

Description

The SBPDIS1AxHx display is a part of the Dupline® carpark system.

It is used for guiding in Carpark facilities.

Connected to the display interface SBP2DI48524.

The display shows the direction by means of a green arrow or a red cross.

Additionally, the display has one white digit and a sign for disabled people.

The sign for disabled is steady blue.

The programmable display uses high-bright LEDs, which are visible at a distance of more than 50 m - also in bright sunlight.

This display is compatible with Carpark systems based on the SBP2WEB24 controller.

The display is built for both indoor and outdoor environments.

Applications

Display for parking guidance systems.

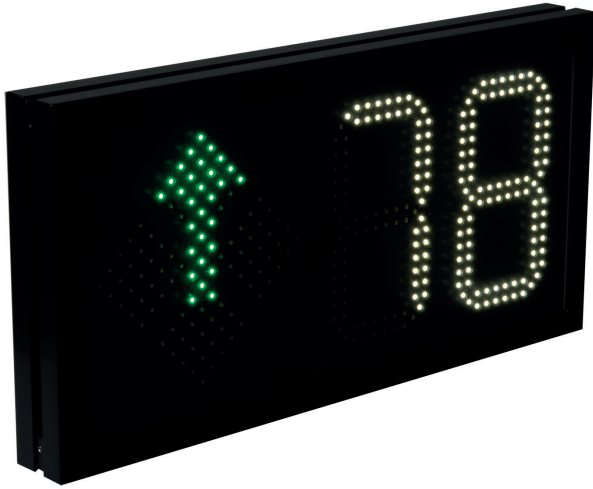
Main functions

- Shows the direction and the number of available spaces for disabled people in a parking zone.

SBPDIS2Axx



Dupline® Carpark Display



Benefits

- Robust and aesthetic looking display built in aluminium
- Brightly lit green-arrow or red-cross LEDs
- Two brightly lit white digits
- Visible from a distance of more than 50 m
- Automatic brightness control
- Settings are configurable from the configuration software via a simple menu
- Same display for indoor and outdoor use
- Option for heated display with an extended temperature range below -20°C

Description

The SBPDIS2Axx display is a part of the Dupline® carpark system. It is used for guiding in Carpark facilities. Connected to the display interface SBP2DI48524. The display shows the number of available spaces by means of two white digits and the direction by means of a green arrow or a red cross. The programmable display uses high-bright LEDs, which are visible at a distance of more than 50 m - also in bright sunlight. This display is compatible with Carpark systems based on the SBP2WEB24 controller. The display is built for both indoor and outdoor environments.

Applications

Display for parking guidance systems.

Main functions

- Shows the direction and the number of available spaces in a parking zone



General specifications

Power Supply

Power supply	≥ 24 VDC
Consumption	18 W (54 W heated version)

Communication

Interface	RS485
Protocol	Modbus RTU
Baud-rate	38400

Display

Technology	LED SMD	
Digit resolution	7 segment 10 x 18 pixel	
Arrow resolution	Customized design 11 x 11 pixel	
Viewing distance	> 50 m	
Symbols configuration	Digits	White colour
	Cross and arrow symbols	Green arrow and red cross
Brightness control	Automatic or manual	



Fig. 1 SBPDIS2AL with arrow



Fig. 2 SBPDIS2AR with arrow



Fig. 3 SBPDIS2AR with cross

Environmental

Operating temperature	-20 ... 50°C (-4 ... 122°F) (-40 ... 50°C (-40 ... 122°F) heated version)
Degree of protection	IP54
Humidity	5 ... 90% relative humidity

Mode of operation

The SBPDIS2xxx is a display used for showing the direction by means of a green arrow or a red cross, and the number of available spaces by means of two white digits, in a parking zone.

The display is programmable by using the SBP2WEB24 configuration software.

The display must be connected to the display interface adapter SBP2DI48524, which converts Dupline® to Modbus RTU.

By using the configuration tool, the installer can choose to let the display show “running” or “steady” arrow. Directions up, down, right or left can also be selected.

The two white digits can show either “0” when no spaces are available, or their places can be left empty.

See below the table of programming options.

The display has a 4-wire cable used for connection to the 24 VDC power supply and an RS485 connection, which sends the value to the display.

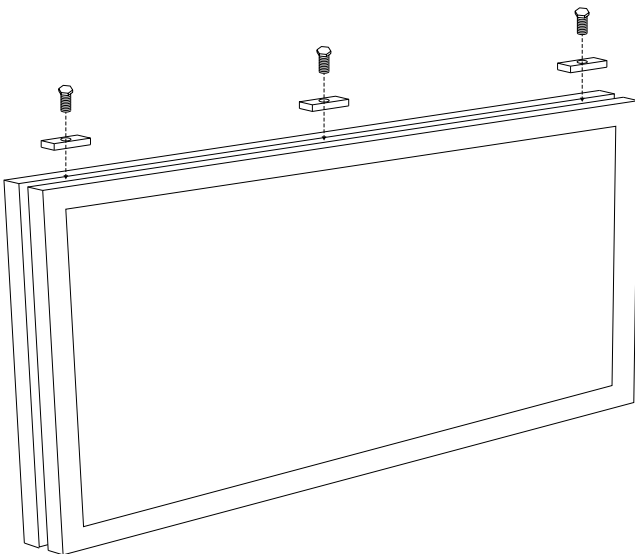
The display needs to be configured prior to installation.

Programming the display is explained further in the software manual.

The SBP2WEB24 software manual can be found by clicking on this link. <http://productselection.net/searchproduct.php>

▶ Mounting

The display's aluminium frame has a slit with three 6-mm nuts for mounting. Using the nuts, the installer can mount the display on the ceiling or the wall.



The display must be mounted by using the included hammer nuts.

Put the hammer nuts in the slit and twist to secure.

Use for instance a threaded rod or screw with 6 mm to secure the display to the wall or ceiling.

Note: Do not open the display in any circumstances, The display and sealing may be damaged. Also, the warranty will be lost.

▶ Options

If the display is mounted in environments temperatures with lower than -20 C degree, we recommend to use the display variant SBDIS2AxT.

The “T” indicates a built-in heating element that ensures an operational temperature if the temperature drops below -20°C.

Programming

Menu for display programming (Up to 4 digits):

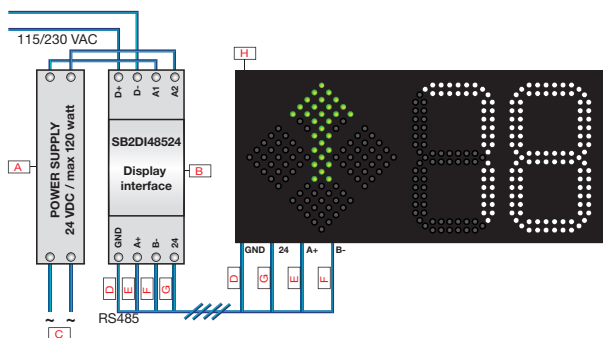
The menu below describes the options when programming the display

1. Arrow selection		
Show arrow when full		
1	Yes	
2	No	Default
Arrow running		
1	Yes	Default
2	No	
Arrow direction		
1	Up	Default
2	Down	
3	Left	
4	Right	
Show Red cross when carpark is full		
1	Yes	Default
2	No	
2. Digit selection		
Show digit when Carpark is full		
1	Yes (show 0)	
2	No (show nothing)	Default
3. Brightness control		
Brightness		
1	30%	
2	50%	
3	75%	
4	Automatic	Default
4. Test		
Display test		
1	Carpark full	
2	Carpark empty	
3	OFF (All LEDs OFF)	Default
4	ON (All LEDs ON)	

Connection Diagrams

Wiring

Wiring example for Dupline® Module SBP2DI48524



Element	Component	Element	Component
A	Power supply 24 VDC/Max. 120 W	E	Yellow
B	Display interface SBP2DI48524	F	Green
C	95 ... 260 VAC	G	Brown
D	White	H	Display

Cable

4 x 0,2 mm	
Brown	24 VDC
White	0 VDC (GND)
Yellow	+ RS485
Green	- RS485

Housing

Casing	Aluminium
Front material	Transparent acrylic
Colour	Black
Dimensions (HxWxD)	215 x 428 x 45 mm
Weight	1.9 Kg

Compatibility and conformity

Approvals

CE-marking



References

Product selection key

SBPDIS2

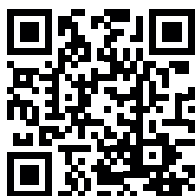
Enter the code entering the corresponding option instead of

Code	Option	Description
SB	-	Smart Building
P	-	Parking
DIS	-	Display
2	-	Number of digits
<input type="checkbox"/>	AL	Arrow left
	AR	Arrow right
<input type="checkbox"/>	T	Heating

Accessories

- 6 mm Hammer nuts for mounting display. 3 items with ordering number: F00S208HM6

Note: 6 mm bolt and brackets are not included.



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General specifications

Power Supply

Power supply	≥ 24 VDC
Consumption	19 W (55 W heated version)

Communication

Interface	RS485
Protocol	Modbus RTU
Baud-rate	38400

Display

Technology	LED SMD	
Digit resolution	7 segment 10 x 18 pixel	
Arrow resolution	Customized design 11 x 11 pixel	
Disabled resolution	Customized design 15 x 19 pixel	
Viewing distance	> 50 m	
Symbols configuration	Digits	White colour
	Cross and arrow symbols	Green arrow and red cross
	Disabled	Blue colour
Brightness control	Automatic or manual	

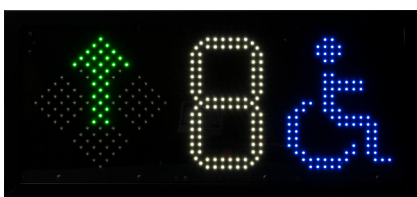


Fig. 1 SBPDIS1ALH

Fig. 2 SBPDIS1ARH

Environmental

Operating temperature	-20 ... 50°C (-4 ... 122°F) (-40 ... 50°C (-40 ... 122°F) heated version)
Degree of protection	IP54
Humidity	5 ... 90% relative humidity

Mode of operation

The SBPDIS1AxHx is a display used for showing direction and available spaces for disabled people in a parking zone.

The display is programmable by using the SBP2WEB24 configuration software.

By using the configuration tool, the installer can choose to let the display show “running” or “steady” arrow.

The display must be connected to the display interface adapter SBP2DI48524, which converts Dupline® to Modbus RTU.

Directions up, down, right or left can also be selected.

The blue sign for disabled is fixed and cannot be changed or removed.

The single digit can be programmed to show “0”, when no spaces are available, or its place can be left empty.

The display has a 4-wire cable used for connection to the 24 VDC power supply and an RS485 connection, which sends the value to the display.

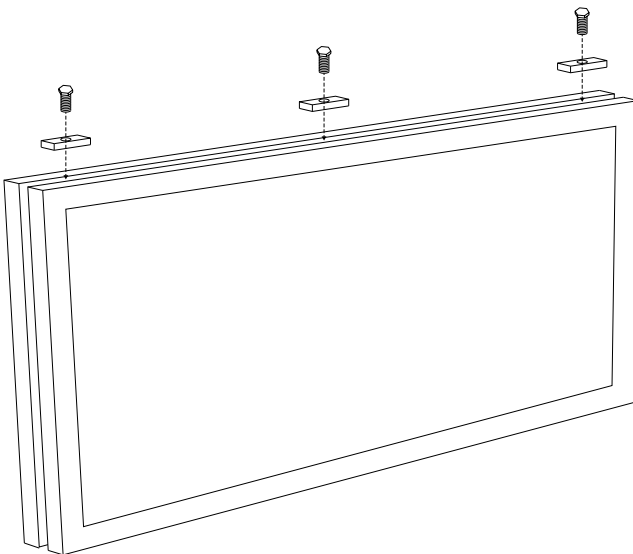
The display needs to be configured prior to installation.

Programming the display is explained further in the software manual.

The SBP2WEB24 software manual can be found by clicking on this link. <http://productselection.net/searchproduct.php>

Mounting

The display's aluminium frame has a slit with three 6-mm nuts for mounting. Using the nuts, the installer can mount the display on the ceiling or the wall.



The display must be mounted by using the included hammer nuts.

Put the hammer nuts in the slit and twist to secure.

Use for instance a threaded rod or screw with 6 mm to secure the display to the wall or ceiling.

Note: Do not open the display in any circumstances. The display and sealing may be damaged. Also, the warranty will be lost.

Options

If the display is mounted in environments with temperatures lower than -20°C , we recommend to use the display variant SBPDIS1AxHT.

The “T” indicates a built-in heating element that ensures an operational temperature if the temperature drops below -20°C .


Programming

Menu for display programming (Up to 4 digits):

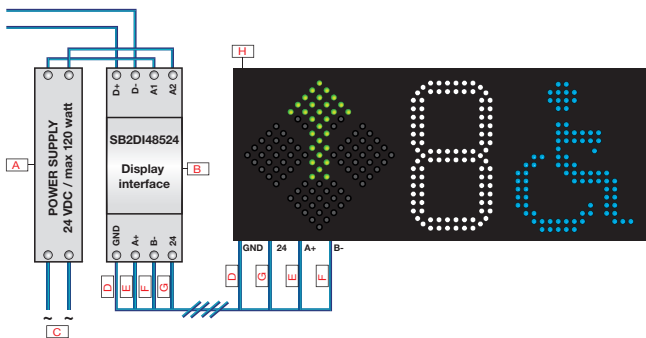
The menu below describes the options when programming the display

1. Arrow selection		
Show arrow when full		
1	Yes	
2	No	Default
Arrow running		
1	Yes	Default
2	No	
Arrow direction		
1	Up	Default
2	Down	
3	Left	
4	Right	
Show Red cross when carpark is full		
1	Yes	Default
2	No	
2. Digit selection		
Show digit when Carpark is full		
1	Yes (show 0)	
2	No (show nothing)	Default
3. Brightness control		
Brightness		
1	30%	
2	50%	
3	75%	
4	Automatic	Default
4. Test		
Display test		
1	Carpark full	
2	Carpark empty	
3	OFF (All LEDs OFF)	Default
4	ON (All LEDs ON)	

Connection Diagrams

Wiring

Wiring example for Dupline® Module SBP2DI48524



Element	Component	Element	Component
A	Power supply 24 VDC/Max. 120 W	E	Yellow
B	Display interface SBP2DI48524	F	Green
C	95 ... 260 VAC	G	Brown
D	White	H	Display

Cable

4 x 0,2 mm	
Brown	24 VDC
White	0 VDC (GND)
Yellow	+ RS485
Green	- RS485

Housing

Casing	Aluminium
Front material	Transparent acrylic
Colour	Black
Dimensions (HxWxD)	215 x 464 x 45 mm
Weight	2.0 Kg

Compatibility and conformity

Approvals

CE-marking	
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References

Product selection key


 SBPDIS1 H

Enter the code entering the corresponding option instead of

Code	Option	Description
SB	-	Smart Building
P	-	Parking
DIS	-	Display
1	-	Number of digits
<input type="checkbox"/>	AL	Arrow left
	AR	Arrow right
H	-	Disabled
<input type="checkbox"/>	T	Heating

Accessories

- 6 mm Hammer nuts for mounting display. 3 items with ordering number: F00S208HM6

Note: 6 mm bolt and brackets are not included.



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SBPDIS2x



Dupline® Carpark Display



Benefits

- Robust and aesthetic looking display built in aluminium
- Two brightly lit white digits
- Visible from a distance of more than 50 m
- Automatic brightness control
- Settings are configurable from the configuration software via a simple menu
- Same display for indoor and outdoor use
- Option for heated display with an extended temperature range below -20°C

Description

The SBPDIS2x display is a part of the Dupline® carpark system.

It is used for guiding in Carpark facilities.

Connected to the display interface SBP2DI48524.

The display shows the number of available spaces by means of two white digits.

The programmable display uses high-bright LEDs, which are visible at a distance of more than 50 m - also in bright sunlight.

This display is compatible with Carpark systems based on the SBP2WEB24 controller.

The display is built for both indoor and outdoor environments.

Applications

Display for parking guidance systems.

Main functions

- Shows the number of available spaces in a parking zone

General specifications

Power Supply

Power supply	≥ 24 VDC
Consumption	14 W (50 W heated version)

Communication

Interface	RS485
Protocol	Modbus RTU
Baud-rate	38400

Display

Technology	LED SMD	
Digit resolution	7 segment 10 x 18 pixel	
Viewing distance	> 50 m	
Symbols configuration	Digits	White colour
Brightness control	Automatic or manual	



Fig. 1 SBPDIS2x

Environmental

Operating temperature	-20 ... 50°C (-4 ... 122°F) (-40 ... 50°C (-40 ... 122°F) heated version)
Degree of protection	IP54
Humidity	5 ... 90% relative humidity

Mode of operation

The SBPDIS2x is a display used for showing available spaces in a parking zone.

The display is programmable by using the SBP2WEB24 configuration software.

The display must be connected to the display interface adapter SBP2DI48524, which converts Dupline® to Modbus RTU.

By using the configuration tool, the installer can choose to let the display show “0”, when no spaces are available, or to leave it empty.

See below the table of programming options.

The display has a 4-wire cable used for connection to the 24 VDC power supply and an RS485 connection, which sends the value to the display.

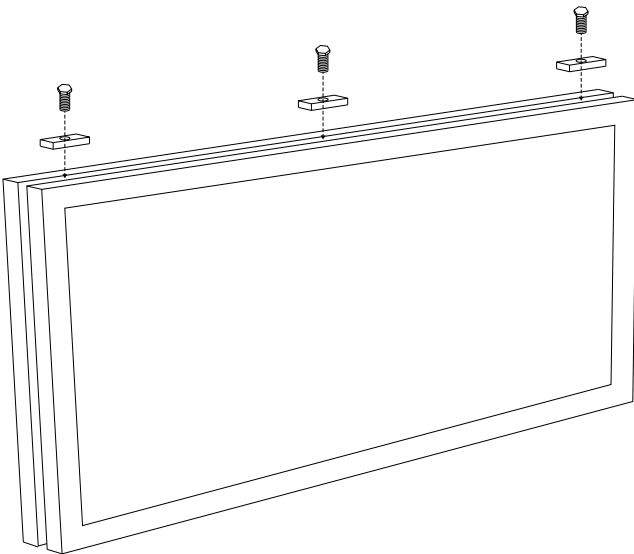
The display needs to be configured prior to installation.

Programming the display is explained further in the software manual.

The SBP2WEB24 software manual can be found by clicking on this link. <http://productselection.net/searchproduct.php>

▶ Mounting

The display's aluminium frame has a slit with three 6-mm nuts for mounting. Using the nuts, the installer can mount the display on the ceiling or the wall.



The display must be mounted by using the included hammer nuts.

Put the hammer nuts in the slit and twist to secure.

Use for instance a threaded rod or screw with 6 mm to secure the display to the wall or ceiling.

Note: Do not open the display in any circumstances, The display and sealing may be damaged. Also, the warranty will be lost.

▶ Options

If the display is mounted in environments with lower temperatures than -20 C degree, we recommend to use the display variant SBDIS2T.

The “T” indicates a built-in heating element that ensures an operational temperature if the temperature drops below -20°C.

▶ Programming

Menu for display programming (Up to 4 digits):

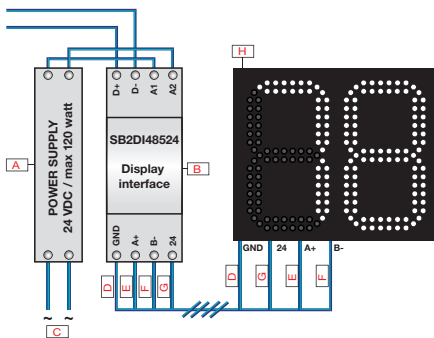
The menu below describes the options when programming the display

1. Arrow selection		
Show arrow when full		
1	Yes	
2	No	Default
Arrow running		
1	Yes	Default
2	No	
Arrow direction		
1	Up	Default
2	Down	
3	Left	
4	Right	
Show Red cross when carpark is full		
1	Yes	Default
2	No	
2. Digit selection		
Show digit when Carpark is full		
1	Yes (show 0)	
2	No (show nothing)	Default
3. Brightness control		
Brightness		
1	30%	
2	50%	
3	75%	
4	Automatic	Default
4. Test		
Display test		
1	Carpark full	
2	Carpark empty	
3	OFF (All LEDs OFF)	Default
4	ON (All LEDs ON)	

Connection Diagrams

Wiring

Wiring example for Dupline® Module SBP2DI48524



Element	Component	Element	Component
A	Power supply 24 VDC/Max. 120 W	E	Yellow
B	Display interface SBP2DI48524	F	Green
C	95 ... 260 VAC	G	Brown
D	White	H	Display

Cable

4 x 0,2 mm	
Brown	24 VDC
White	0 VDC (GND)
Yellow	+ RS485
Green	- RS485

Housing

Casing	Aluminium
Front material	Transparent acrylic
Colour	Black
Dimensions (HxWxD)	215 x 253 x 45 mm
Weight	1.1 Kg

Compatibility and conformity

Approvals

CE-marking	CE
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References

Product selection key



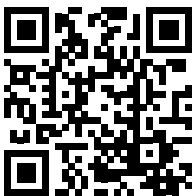
Enter the code entering the corresponding option instead of

Code	Option	Description
SB	-	Smart Building
P	-	Parking
DIS	-	Display
2	-	Number of digits
<input type="checkbox"/>	T	Heating

Accessories

- 6 mm Hammer nuts for mounting display. 3 items with ordering number: F00S208HM6

Note: 6 mm bolt and brackets are not included.

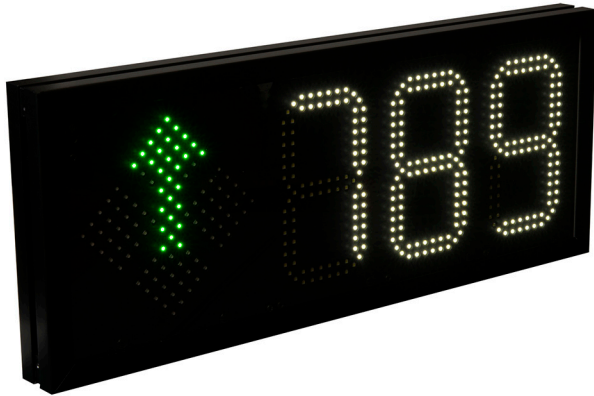


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SBPDIS3Axx



Dupline® Carpark Display



Benefits

- Robust and aesthetic looking display built in aluminium
- Brightly lit green-arrow or red-cross LEDs
- Three bright white LED digits
- Visible from a distance of more than 50 m
- Automatic brightness control
- Settings are configurable from the configuration software via a simple menu
- Same display for indoor and outdoor use
- Option for heated display with an extended temperature range below -20°C

Description

The SBPDIS3Axx display is a part of the Dupline® carpark system. It is used for guiding in Carpark facilities. Connected to the display interface SBP2DI48524. The display shows the number of available spaces by means of three white digits and the direction by means of a green arrow or a red cross. The programmable display uses high-bright LEDs, which are visible at a distance of more than 50 m - also in bright sunlight. This display is compatible with Carpark systems based on the SBP2WEB24 controller. The display is built for both indoor and outdoor environments.

Applications

Display for parking guidance systems.

Main functions

- Shows the direction and the number of available spaces in a parking zone

General specifications

Power Supply

Power supply	≥ 24 VDC
Consumption	25 W (61 W heated version)

Communication

Interface	RS485
Protocol	Modbus RTU
Baud-rate	38400

Display

Technology	LED SMD	
Digit resolution	7 segment 10 x 18 pixel	
Arrow resolution	Customized design 11 x 11 pixel	
Viewing distance	> 50 m	
Symbols configuration	Digits	White colour
	Cross and arrow symbols	Green arrow and red cross
Brightness control	Automatic or manual	



Fig. 1 SBPDIS3AL with arrow

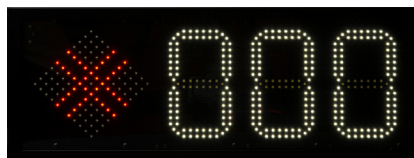


Fig. 2 SBPDIS3AL with cross



Fig. 3 SBPDIS3AR with arrow

Environmental

Operating temperature	-20 ... 50°C (-4 ... 122°F) (-40 ... 50°C (-40 ... 122°F) heated version)
Degree of protection	IP54
Humidity	5 ... 90% relative humidity

Mode of operation

The SBPDIS3Axx is a display used in a parking zone to show the direction by means of a green arrow or a red cross, and the number of available spaces by means of three white digits.

The display is programmable by using the SBP2WEB24 configuration software.

The display must be connected to the display interface adapter SBP2DI48524, which converts Dupline® to Modbus RTU.

By using the configuration tool, the installer can choose to let the display show “running” or “steady” arrow. Directions up, down, right or left can also be selected.

The three white digits can show either “0” when no spaces are available, or their places can be left empty. See below the table of programming options.

The display has a 4-wire cable used for connection to the 24 VDC power supply and an RS485 connection, which sends the value to the display.

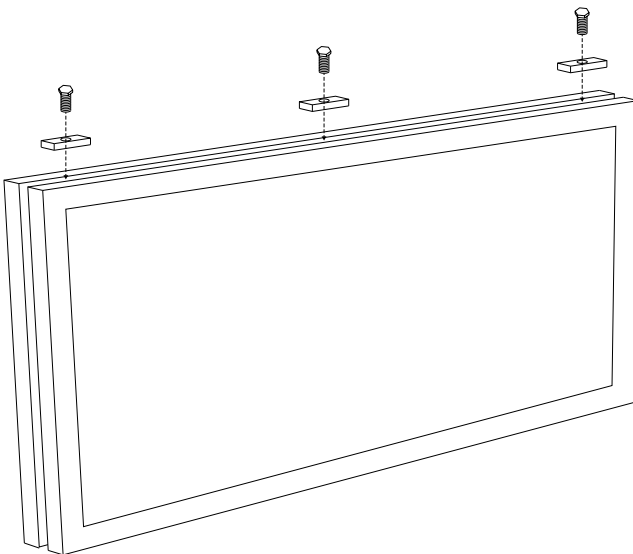
The display needs to be configured prior to installation.

Programming the display is explained further in the software manual.

The SBP2WEB24 software manual can be found by clicking on this link. <http://productselection.net/searchproduct.php>

▶ Mounting

The display's aluminium frame has a slit with three 6-mm nuts for mounting. Using the nuts, the installer can mount the display on the ceiling or the wall.



The display must be mounted by using the included hammer nuts.

Put the hammer nuts in the slit and twist to secure.

Use for instance a threaded rod or screw with 6 mm to secure the display to the wall or ceiling.

Note: Do not open the display in any circumstances. The display and sealing may be damaged. Also, the warranty will be lost.

▶ Options

If the display is mounted in environments with temperatures lower than -20 C degree, we recommend to use the display variant SBDIS3AxT.

The “T” indicates a built-in heating element that ensures an operational temperature if the temperature drops below -20°C.

Programming

Menu for display programming (Up to 4 digits):

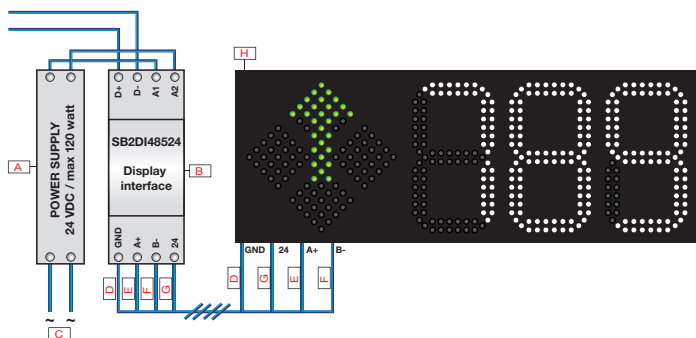
The menu below describes the options when programming the display

1. Arrow selection		
Show arrow when full		
1	Yes	
2	No	Default
Arrow running		
1	Yes	Default
2	No	
Arrow direction		
1	Up	Default
2	Down	
3	Left	
4	Right	
Show Red cross when carpark is full		
1	Yes	Default
2	No	
2. Digit selection		
Show digit when Carpark is full		
1	Yes (show 0)	
2	No (show nothing)	Default
3. Brightness control		
Brightness		
1	30%	
2	50%	
3	75%	
4	Automatic	Default
4. Test		
Display test		
1	Carpark full	
2	Carpark empty	
3	OFF (All LEDs OFF)	Default
4	ON (All LEDs ON)	

Connection Diagrams

Wiring

Wiring example for Dupline® Module SBP2DI48524



Element	Component	Element	Component
A	Power supply 24 VDC/Max. 120 W	E	Yellow
B	Display interface SBP2DI48524	F	Green
C	95 ... 260 VAC	G	Brown
D	White	H	Display

Cable

4 x 0,2 mm	
Brown	24 VDC
White	0 VDC (GND)
Yellow	+ RS485
Green	- RS485

Housing

Casing	Aluminium
Front material	Transparent acrylic
Colour	Black
Dimensions (HxWxD)	215 x 535 x 45 mm
Weight	2.3 Kg

Compatibility and conformity

Approvals

CE-marking



References

Product selection key

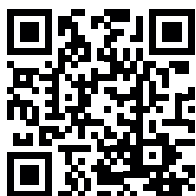
SBPDIS3 Enter the code entering the corresponding option instead of

Code	Option	Description
SB	-	Smart Building
P	-	Parking
DIS	-	Display
3	-	Number of digits
<input type="checkbox"/>	AL	Arrow left
	AR	Arrow right
<input type="checkbox"/>	T	Heating

Accessories

- 6 mm Hammer nuts for mounting display. 3 items with ordering number: F00S208HM6

Note: 6 mm bolt and brackets are not included.



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SBPDIS3x



Dupline® Carpark Display



Benefits

- Robust and aesthetic looking display built in aluminium
- Three bright white LED digits
- Visible from a distance of more than 50 m
- Automatic brightness control
- Settings are configurable from the configuration software via a simple menu
- Same display for indoor and outdoor use
- Option for heated display with an extended temperature range below -20°C

Description

The SBPDIS3x display is a part of the Dupline® carpark system. It is used for guiding in Carpark facilities. Connected to the display interface SBP2DI48524. The display shows the number of available spaces by means of three white digits. The programmable display uses high-bright LEDs, which are visible at a distance of more than 50 m - also in bright sunlight. This display is compatible with Carpark systems based on the SBP2WEB24 controller. The display is built for both indoor and outdoor environments.

Applications

Display for parking guidance systems.

Main functions

- Shows the number of available spaces in a parking zone



General specifications

Power Supply

Power supply	≥ 24 VDC
Consumption	21 W (57 W heated version)

Communication

Interface	RS485
Protocol	Modbus RTU
Baud-rate	38400

Display

Technology	LED SMD	
Digit resolution	7 segment 10 x 18 pixel	
Viewing distance	> 50 m	
Symbols configuration	Digits	White colour
Brightness control	Automatic or manual	



Fig. 1 SBPDIS3

Environmental

Operating temperature	-20 ... 50°C (-4 ... 122°F) (-40 ... 50°C (-40 ... 122°F) heated version)
Degree of protection	IP54
Humidity	5 ... 90% relative humidity

Mode of operation

The SBPDIS3x is a display used for showing available spaces in a parking zone.

The display is programmable by using the SBP2WEB24 configuration software.

The display must be connected to the display interface adapter SBP2DI48524, which converts Dupline® to Modbus RTU.

By using the configuration tool, the installer can choose to let the display show “0”, when no spaces are available, or to leave it empty.

See below the table of programming options.

The display has a 4-wire cable used for connection to the 24 VDC power supply and an RS485 connection, which sends the value to the display.

The display needs to be configured prior to installation.

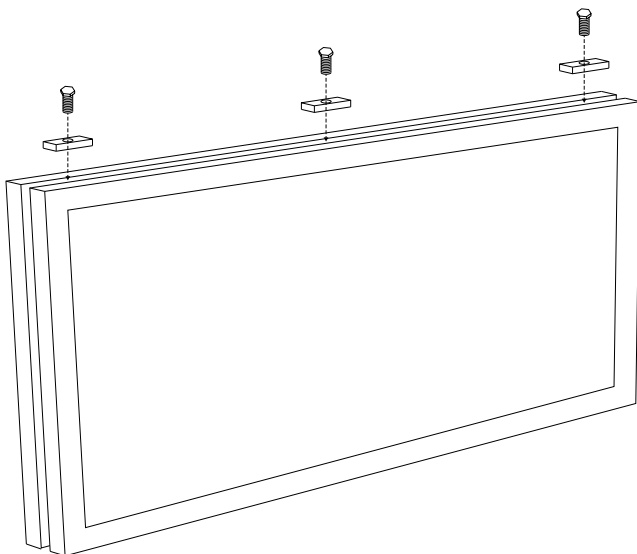
Programming the display is explained further in the software manual.

The SBP2WEB24 software manual can be found by clicking on this link. <http://productselection.net/searchproduct.php>

Mounting

The display's aluminium frame has a slit with three 6-mm nuts for mounting.

Using the nuts, the installer can mount the display on the ceiling or the wall.



The display must be mounted by using the included hammer nuts.

Put the hammer nuts in the slit and twist to secure.

Use for instance a threaded rod or screw with 6 mm to secure the display to the wall or ceiling.

Note: Do not open the display in any circumstances, The display and sealing may be damaged. Also, the warranty will be lost.

Options

If the display is mounted in environments with lower temperatures than -20 C degree, we recommend to use the display variant SBDIS3T.

The “T” indicates a built-in heating element that ensures an operational temperature if the temperature drops below -20°C.

Programming

Menu for display programming (Up to 4 digits):

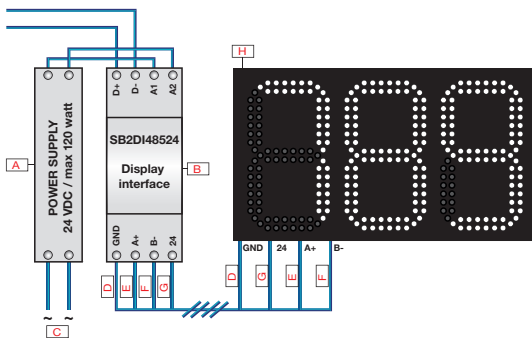
The menu below describes the options when programming the display

1. Arrow selection		
Show arrow when full		
1	Yes	
2	No	Default
Arrow running		
1	Yes	Default
2	No	
Arrow direction		
1	Up	Default
2	Down	
3	Left	
4	Right	
Show Red cross when carpark is full		
1	Yes	Default
2	No	
2. Digit selection		
Show digit when Carpark is full		
1	Yes (show 0)	
2	No (show nothing)	Default
3. Brightness control		
Brightness		
1	30%	
2	50%	
3	75%	
4	Automatic	Default
4. Test		
Display test		
1	Carpark full	
2	Carpark empty	
3	OFF (All LEDs OFF)	Default
4	ON (All LEDs ON)	

Connection Diagrams

Wiring

Wiring example for Dupline® Module SBP2DI48524



Element	Component	Element	Component
A	Power supply 24 VDC/Max. 120 W	E	Yellow
B	Display interface SBP2DI48524	F	Green
C	95 ... 260 VAC	G	Brown
D	White	H	Display

Cable

4 x 0,2 mm	
Brown	24 VDC
White	0 VDC (GND)
Yellow	+ RS485
Green	- RS485

Housing

Casing	Aluminium
Front material	Transparent acrylic
Colour	Black
Dimensions (HxWxD)	215 x 360 x 45 mm
Weight	1.5 Kg

Compatibility and conformity

Approvals

CE-marking	CE
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References

Product selection key



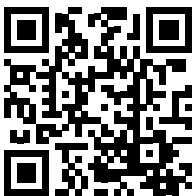
Enter the code entering the corresponding option instead of

Code	Option	Description
SB	-	Smart Building
P	-	Parking
DIS	-	Display
3	-	Number of digits
<input type="checkbox"/>	T	Heating

Accessories

- 6 mm Hammer nuts for mounting display. 3 items with ordering number: F00S208HM6

Note: 6 mm bolt and brackets are not included.



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SBPDIS4x



Dupline® Carpark Display



Benefits

- Robust and aesthetic looking display built in aluminium
- Four bright white digits
- Visible from a distance of more than 50 m
- Automatic brightness control
- Settings are configurable from the configuration software via a simple menu
- Same display for indoor and outdoor use
- Option for heated display with an extended temperature range below -20°C

Description

The SBPDIS4x display is a part of the Dupline® carpark system.

It is used for guiding in Carpark facilities.

Connected to the display interface SBP2DI48524.

The display shows the number of available spaces by means of four white digits.

The programmable display uses high-bright LEDs, which are visible at a distance of more than 50 m - also in bright sunlight.

This display is compatible with Carpark systems based on the SBP2WEB24 controller.

The display is built for both indoor and outdoor environments.

Applications

Display for parking guidance systems.

Main functions

- Shows the number of available spaces in a parking zone

General specifications

Power Supply

Power supply	≥ 24 VDC
Consumption	27 W (63 W heated version)

Communication

Interface	RS485
Protocol	Modbus RTU
Baud-rate	38400

Display

Technology	LED SMD	
Digit resolution	7 segment 10 x 18 pixel	
Viewing distance	> 50 m	
Symbols configuration	Digits	White colour
Brightness control	Automatic or manual	



Fig. 1 SBPDIS4



Fig. 2 SBPDIS4_FULL

Environmental

Operating temperature	-20 ... 50°C (-4 ... 122°F) (-40 ... 50°C (-40 ... 122°F) heated version)
Degree of protection	IP54
Humidity	5 ... 90% relative humidity

Mode of operation

The SBPDIS4x is a display used for showing available spaces in a parking zone.

The display is programmable by using the SBP2WEB24 configuration software.

The display must be connected to the display interface adapter SBP2DI48524, which converts Dupline® to Modbus RTU.

By using the configuration tool, the installer can choose to let the display show “0”, when no spaces are available, or to show “FULL”.

See below the table of programming options.

The display has a 4-wire cable used for connection to the 24 VDC power supply and an RS485 connection, which sends the value to the display.

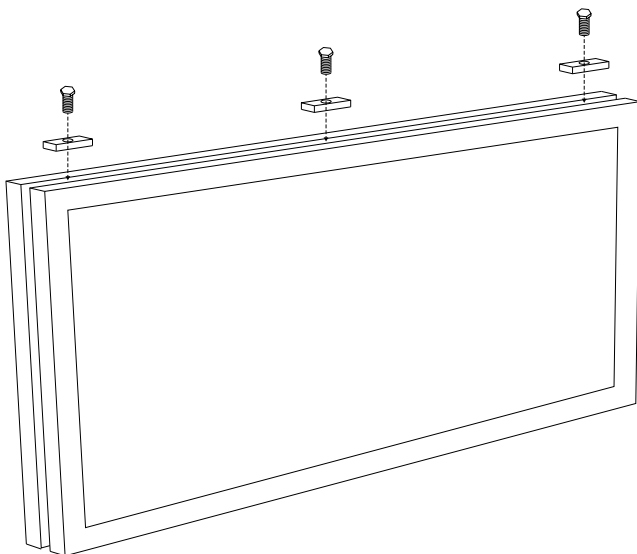
The display needs to be configured prior to installation.

Programming the display is explained further in the software manual.

The SBP2WEB24 software manual can be found by clicking on this link. <http://productselection.net/searchproduct.php>

Mounting

The display's aluminium frame has a slit with three 6-mm nuts for mounting. Using the nuts, the installer can mount the display on the ceiling or the wall.



The display must be mounted by using the included hammer nuts.

Put the hammer nuts in the slit and twist to secure.

Use for instance a threaded rod or screw with 6 mm to secure the display to the wall or ceiling.

Note: Do not open the display in any circumstances. The display and sealing may be damaged. Also, the warranty will be lost.

Options

If the display is mounted in environments with temperatures lower than -20°C , we recommend to use the display variant SBDIS4T.

The “T” indicates a built-in heating element that ensures an operational temperature if the temperature drops below -20°C .

Programming

Menu for display programming (Up to 4 digits):

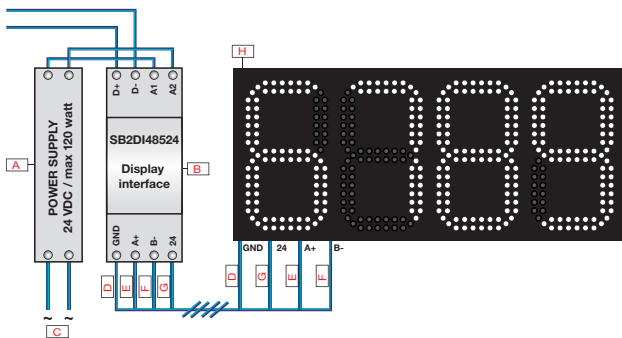
The menu below describes the options when programming the display

1. Arrow selection		
Show arrow when full		
1	Yes	
2	No	Default
Arrow running		
1	Yes	Default
2	No	
Arrow direction		
1	Up	Default
2	Down	
3	Left	
4	Right	
Show Red cross when carpark is full		
1	Yes	Default
2	No	
2. Digit selection		
Show digit when Carpark is full		
1	Yes (show 0)	
2	No (show "FULL")	Default
3. Brightness control		
Brightness		
1	30%	
2	50%	
3	75%	
4	Automatic	Default
4. Test		
Display test		
1	Carpark full	
2	Carpark empty	
3	OFF (All LEDs OFF)	Default
4	ON (All LEDs ON)	

Connection Diagrams

Wiring

Wiring example for Dupline® Module SBP2DI48524



Element	Component	Element	Component
A	Power supply 24 VDC/Max. 120 W	E	Yellow
B	Display interface SBP2DI48524	F	Green
C	95 ... 260 VAC	G	Brown
D	White	H	Display

Cable

4 x 0,2 mm	
Brown	24 VDC
White	0 VDC (GND)
Yellow	+ RS485
Green	- RS485

Housing

Casing	Aluminium
Front material	Transparent acrylic
Colour	Black
Dimensions (HxWxD)	215 x 467 x 45 mm
Weight	2.0 Kg

Compatibility and conformity

Approvals

CE-marking	CE
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References

Product selection key

SBPDIS4

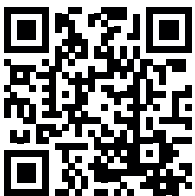
Enter the code entering the corresponding option instead of

Code	Option	Description
SB	-	Smart Building
P	-	Parking
DIS	-	Display
4	-	Number of digits
<input type="checkbox"/>	T	Heating

Accessories

- 6 mm Hammer nuts for mounting display. 3 items with ordering number: F00S208HM6

Note: 6 mm bolt and brackets are not included.



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SBPDIS9x



Dupline® Carpark Display



Description

The SBPDIS9x display is a part of the Dupline® carpark system. It is used for guiding in Carpark facilities. Connected to the display interface SBP2DI48524. The display is a freely programmable display that allows the installer to decide to use the whole matrix for text, or to use part of it dynamically to show the number of available parking spaces. The programmable display uses high-bright LEDs, which are visible at a distance of more than 50 m - also in bright sunlight. This display is compatible with Carpark systems based on the SBP2WEB24 controller. The display is built for both indoor and outdoor environments.

Benefits

- Robust and aesthetic looking display built in aluminium
- White LED, 16 x 96 pixels, full matrix
- Option for text and numbers in combination
- Wide language selection, which can show for instance "OPEN 9999" and "CLOSED"
- Visible from a distance of more than 50 m
- Automatic brightness control
- Settings are configurable from the configuration software via a simple menu
- Same display for indoor and outdoor use
- Option for heated display with an extended temperature range below -20°C

Applications

Display for parking guidance systems.

Main functions

- Shows text and number of available spaces in a parking zone

General specifications

Power Supply

Power supply	≥ 24 VDC (min.)
Consumption (Power)	62 W (122 W heated version)

Communication

Interface	RS485
Protocol	Modbus RTU
Baud-rate	38400

Display

Technology	LED SMD	
Digit resolution	16 x 96 pixels, full matrix	
Viewing distance	min. 50 m	
Symbols configuration	Digits	White colour
Brightness control	Automatic or manual	



Fig. 1 SBPDIS9x

Environmental

Operating temperature	-20 ... 50°C (-4 ... 122°F) (-40 ... 50°C (-40 ... 122°F) heated version)
Degree of protection	IP54
Humidity	5 ... 90% relative humidity

Mode of operation

The SBPDIS9x is a display used for showing text, for instance “OPEN” or “CLOSED,” or text and numbers in combination, for instance “OPEN-1234” or “CLOSED000”.

The display has a built-in alphabet to enable the installer to design the text required.

Connect the display to the display interface SBP2DI48524 and use the SBP2WEB24 configuration tool to program the display.

See below the table of programming options.

The display has a 4-wire cable used for connection to the 24 VDC power supply and an RS485 connection, which sends the value to the display.

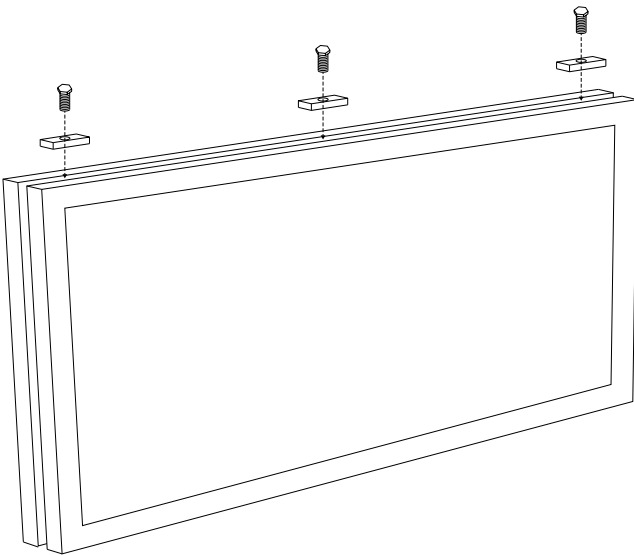
The display needs to be configured prior to installation.

Programming the display is explained further in the software manual.

The SBP2WEB24 software manual can be found by clicking on this link. <http://productselection.net/searchproduct.php>

▶ Mounting

The display's aluminium frame has a slit with three 6-mm nuts for mounting. Using the nuts, the installer can mount the display on the ceiling or the wall.



The display must be mounted by using the included hammer nuts.

Put the hammer nuts in the slit and twist to secure.

Use for instance a threaded rod or screw with 6 mm to secure the display to the wall or ceiling.

Note: Do not open the display in any circumstances, The display and sealing may be damaged. Also, the warranty will be lost.

▶ Options

If the display is mounted in environments with temperatures lower than -20°C , we recommend you to use the display variant SBDIS9T.

The “T” indicates a built-in heating element that ensures an operational temperature if the temperature drops below -20°C .

▶ Programming

Menu for display programming (9 digits only)

The menu below describes the options when programming the display

1. Select text for "Carpark empty"		
Text only. Up to 9 characters	(XXXXXXXXXX)	
Text and 3 digits	(XXXXXXX999)	Default
Text and 4 digits	(XXXXXX9999)	
Text and 5 digits	(XXXXX99999)	
2. Select text for "Carpark full"		
Text only Up to 9 characters	(XXXXXXXXXX)	Default
Text and 3 digits	(XXXXXXX999)	
Text and 4 digits	(XXXXXX9999)	
Text and 5 digits	(XXXXX99999)	
3. Brightness control		
Brightness		
1	30%	
2	50%	
3	75%	
4	Automatic	Default
4. Test		
Display test		
1	Carpark full	
2	Carpark empty	
3	All LEDs ON	
4	All LEDs OFF	
5	OFF	Default
5. Special command		
1	Special command 1	Modbus RTU 40030 - 40038
2	Special command 2	Modbus RTU 40040 - 40048
3	Special command 3	Modbus RTU 40050 - 40058
4	OFF	Default

Connection Diagrams

Wiring

Wiring example for Dupline® Module SBP2DI48524



Element	Component	Element	Component
A	Power supply 24 VDC/Max. 120 W	E	Yellow
B	Display interface SBP2DI48524	F	Green
C	95 ... 260 VAC	G	Brown
D	White	H	Display

Cable

4 x 0,2 mm	
Brown	24 VDC
White	0 VDC (GND)
Yellow	+ RS485
Green	- RS485

Housing

Casing	Aluminium
Front material	Transparent acrylic
Colour	Black
Dimensions (HxWxD)	215 x 950 x 45 mm
Weight	4.3 Kg

Compatibility and conformity

Approvals

CE-marking	CE
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References

Product selection key

SBPDIS9

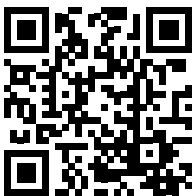
Enter the code entering the corresponding option instead of

Code	Option	Description
SB	-	Smart Building
P	-	Parking
DIS	-	Display
9	-	Number of digits
<input type="checkbox"/>	T	Heating

Accessories

- 6 mm Hammer nuts for mounting display. 3 items with ordering number: F00S208HM6

Note: 6 mm bolt and brackets are not included.

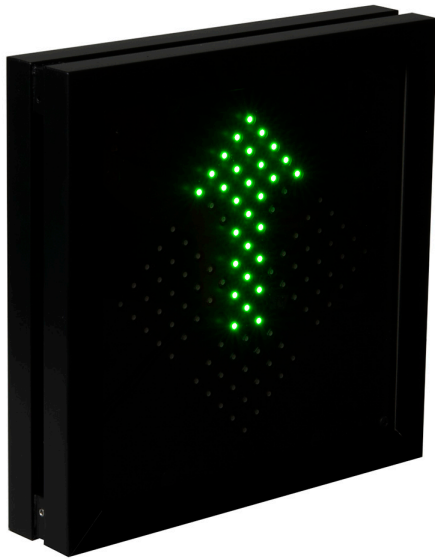


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SBPDISAx



Dupline® Carpark Display



Benefits

- Robust and aesthetic looking display built in aluminium
- Brightly lit green-arrow or red-cross LEDs
- Visible from a distance of more than 50 m
- Automatic brightness control
- Settings are configurable from the configuration software via a simple menu
- Same display for indoor and outdoor use
- Option for heated display with an extended temperature range below -20°C

Description

The SBPDISAx display is a part of the Dupline® carpark system. It is used for guiding in Carpark facilities. Connected to the display interface SBP2DI48524. The display shows the direction by means of a green arrow or a red cross. The programmable display uses high-bright LEDs, which are visible at a distance of more than 50 m - also in bright sunlight. This display is compatible with Carpark systems based on the SBP2WEB24 controller. The display is built for both indoor and outdoor environments.

Applications

Display for parking guidance systems.

Main functions

- Show the direction for available spaces in a parking zone.

General specifications

Power Supply

Power supply	≥ 24 VDC
Consumption	5 W (41 W heated version)

Communication

Interface	RS485
Protocol	Modbus RTU
Baud-rate	38400

Display

Technology	LED SMD	
Arrow resolution	Customized design 11 x 11 pixel	
Viewing distance	> 50 m	
Symbols configuration	Cross and arrow symbols	Green arrow and red cross
Brightness control	Automatic or manual	



Fig. 1 SBPDISA with arrow



Fig. 2 SBPDISA with cross

Environmental

Operating temperature	-20 ... 50°C (-4 ... 122°F) (-40 ... 50°C (-40 ... 122°F) heated version)
Degree of protection	IP54
Humidity	5 ... 90% relative humidity

Mode of operation

The SBPDISAx is a display used for showing the direction of available spaces in a parking zone.

The display is programmable by using the SBP2WEB24 configuration software.

The display must be connected to the display interface adapter SBP2DI48524, which converts Dupline® to Modbus RTU.

By using the configuration tool, the installer can choose to let the display show “running” or “steady” arrow.

Directions up, down, right or left can also be selected.

See below the table of programming options.

The display has a 4-wire cable used for connection to the 24 VDC power supply and an RS485 connection, which sends the value to the display.

The display needs to be configured prior to installation.

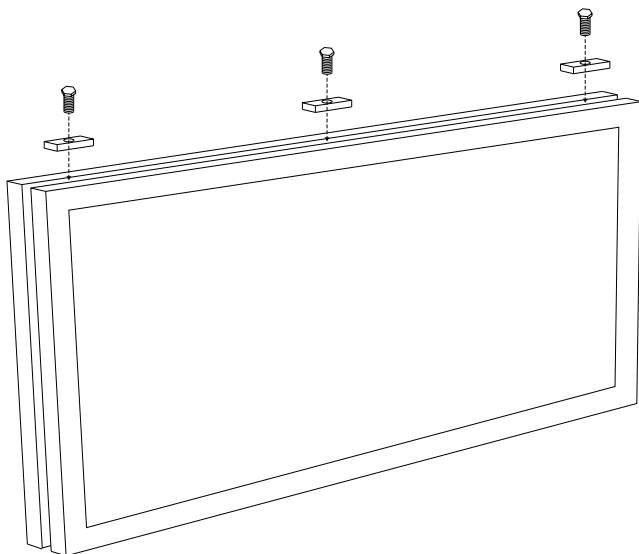
Programming the display is explained further in the software manual.

The SBP2WEB24 software manual can be found by clicking on this link. <http://productselection.net/searchproduct.php>

Mounting

The display's aluminium frame has a slit with three 6-mm nuts for mounting.

Using the nuts, the installer can mount the display on the ceiling or the wall.



The display must be mounted by using the included hammer nuts.

Put the hammer nuts in the slit and twist to secure.

Use for instance a threaded rod or screw with 6 mm to secure the display to the wall or ceiling.

Note: Do not open the display in any circumstances, The display and sealing may be damaged. Also, the warranty will be lost.

Options

If the display is mounted in environments with temperatures lower than -20°C , we recommend to use the display variant SBDISAT.

The “T” indicates a built-in heating element that ensures an operational temperature if the temperature drops below -20°C .

Programming

Menu for display programming (Up to 4 digits):

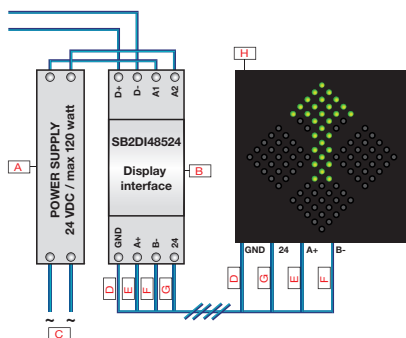
The menu below describes the options when programming the display

1. Arrow selection		
Show arrow when full		
1	Yes	
2	No	Default
Arrow running		
1	Yes	Default
2	No	
Arrow direction		
1	Up	Default
2	Down	
3	Left	
4	Right	
Show Red cross when carpark is full		
1	Yes	Default
2	No	
2. Digit selection		
Show digit when Carpark is full		
1	Yes (show 0)	
2	No (show nothing)	Default
3. Brightness control		
Brightness		
1	30%	
2	50%	
3	75%	
4	Automatic	Default
4. Test		
Display test		
1	Carpark full	
2	Carpark empty	
3	OFF (All LEDs OFF)	Default
4	ON (All LEDs ON)	

Connection Diagrams

Wiring

Wiring example for Dupline® Module SBP2DI48524



Element	Component	Element	Component
A	Power supply 24 VDC/Max. 120 W	E	Yellow
B	Display interface SBP2DI48524	F	Green
C	95 ... 260 VAC	G	Brown
D	White	H	Display

Cable

4 x 0,2 mm	
Brown	24 VDC
White	0 VDC (GND)
Yellow	+ RS485
Green	- RS485

Housing

Casing	Aluminium
Front material	Transparent acrylic
Colour	Black
Dimensions (HxWxD)	215 x 215 x 45 mm
Weight	1.0 Kg

Compatibility and conformity

Approvals

CE-marking



References

Product selection key

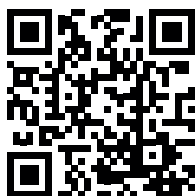
SBPDISA Enter the code entering the corresponding option instead of

Code	Option	Description
SB	-	Smart Building
P	-	Parking
DIS	-	Display
A	-	Arrow
<input type="checkbox"/>	T	Heating

Accessories

- 6 mm Hammer nuts for mounting display. 3 items with ordering number: F00S208HM6

Note: 6 mm bolt and brackets are not included.

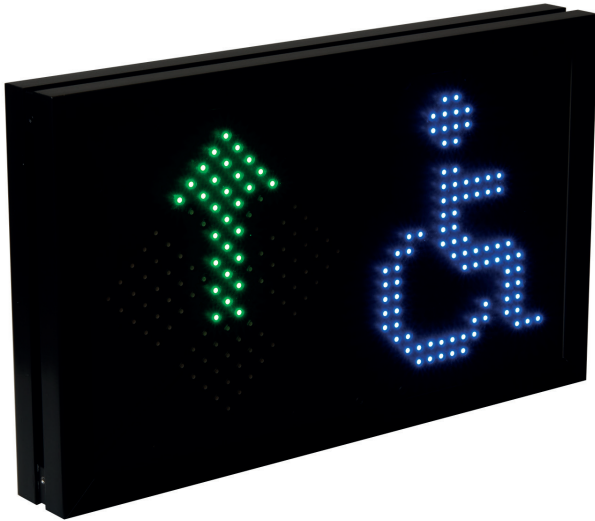


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SBPDISAxHx



Dupline® Carpark Display



Benefits

- Robust and aesthetic looking display built in aluminium
- Brightly lit green arrow or red cross LEDs and a blue sign for disabled
- Visible from a distance of more than 50 m
- Automatic brightness control
- Settings are configurable from the configuration software via a simple menu
- Same display for indoor and outdoor use
- Option for heated display with an extended temperature range below -20°C

Description

The SBPDISAxHx display is a part of the Dupline® carpark system.
It is used for guiding in Carpark facilities.
Connected to the display interface SBP2DI48524.
The display shows the direction by means of a green arrow or a red cross.
The sign for disabled is steady blue.
The programmable display uses high-bright LEDs, which are visible at a distance of more than 50 m - also in bright sunlight.
This display is compatible with Carpark systems based on the SBP2WEB24 controller.
The display is built for both indoor and outdoor environments.

Applications

Display for parking guidance systems.

Main functions

- Shows the direction for available spaces for disabled in a parking zone.

General specifications

Power Supply

Power supply	≥ 24 VDC
Consumption	12 W (48 W heated version)

Communication

Interface	RS485
Protocol	Modbus RTU
Baud-rate	38400

Display

Technology	LED SMD	
Arrow resolution	Customized design 11 x 11 pixel	
Disabled resolution	Customized design 15 x 19 pixel	
Viewing distance	> 50 m	
Symbols configuration	Cross and arrow symbols	Green arrow and red cross
	Disabled	Blue colour
Brightness control	Automatic or manual	

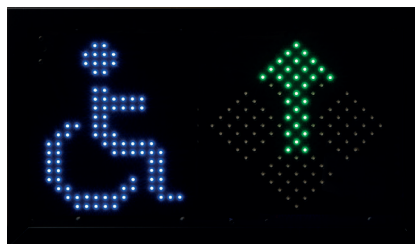


Fig. 1 SBPDISALH

Fig. 2 SBPDISARH

Environmental

Operating temperature	-20 ... 50°C (-4 ... 122°F) (-40 ... 50°C (-40 ... 122°F) heated version)
Degree of protection	IP54
Humidity	5 ... 90% relative humidity

Mode of operation

The SBPDISAxHx is a display used for showing the direction of available Carpark spaces for disabled people in a parking zone.

The display is programmable by using the SBP2WEB24 configuration software.

The display must be connected to the display interface adapter SBP2DI48524, which converts Dupline® to Modbus RTU.

By using the configuration tool, the installer can choose to let the display show “running” or “steady” arrow. Directions up, down, right or left can also be selected.

The blue sign for disabled is fixed and cannot be changed or removed.

See below the table of programming options.

The display has a 4-wire cable used for connection to the 24 VDC power supply and an RS485 connection, which sends the value to the display.

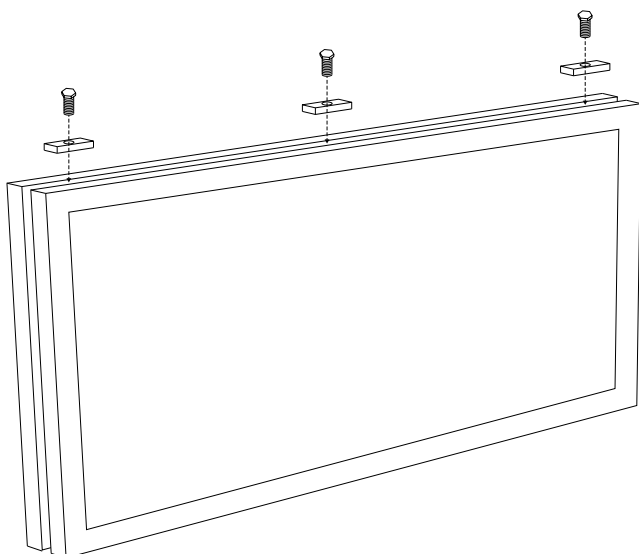
The display needs to be configured prior to installation.

Programming the display is explained further in the software manual.

The SBP2WEB24 software manual can be found by clicking on this link. <http://productselection.net/searchproduct.php>

Mounting

The display's aluminium frame has a slit with three 6-mm nuts for mounting. Using the nuts, the installer can mount the display on the ceiling or the wall.



The display must be mounted by using the included hammer nuts.

Put the hammer nuts in the slit and twist to secure.

Use for instance a threaded rod or screw with 6 mm to secure the display to the wall or ceiling.

Note: Do not open the display in any circumstances, The display and sealing may be damaged. Also, the warranty will be lost.

Options

If the display is mounted in environments with temperatures lower than -20 C degree, we recommend to use the display variant SBDISAxHT.

The “T” indicates a built-in heating element that ensures an operational temperature if the temperature drops below -20°C.

Programming

Menu for display programming (Up to 4 digits):

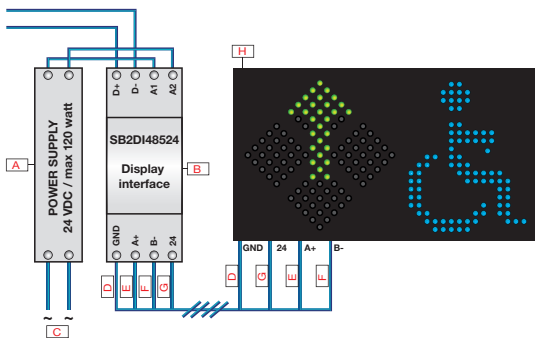
The menu below describes the options when programming the display

1. Arrow selection		
Show arrow when full		
1	Yes	
2	No	Default
Arrow running		
1	Yes	Default
2	No	
Arrow direction		
1	Up	Default
2	Down	
3	Left	
4	Right	
Show Red cross when carpark is full		
1	Yes	Default
2	No	
2. Digit selection		
Show digit when Carpark is full		
1	Yes (show 0)	
2	No (show nothing)	Default
3. Brightness control		
Brightness		
1	30%	
2	50%	
3	75%	
4	Automatic	Default
4. Test		
Display test		
1	Carpark full	
2	Carpark empty	
3	OFF (All LEDs OFF)	Default
4	ON (All LEDs ON)	

Connection Diagrams

Wiring

Wiring example for Dupline® Module SBP2DI48524



Element	Component	Element	Component
A	Power supply 24 VDC/Max. 120 W	E	Yellow
B	Display interface SBP2DI48524	F	Green
C	95 ... 260 VAC	G	Brown
D	White	H	Display

Cable

4 x 0,2 mm	
Brown	24 VDC
White	0 VDC (GND)
Yellow	+ RS485
Green	- RS485

Housing

Casing	Aluminium
Front material	Transparent acrylic
Colour	Black
Dimensions (HxWxD)	215 x 358 x 45 mm
Weight	1.6 Kg

Compatibility and conformity

Approvals

CE-marking



References

Product selection key

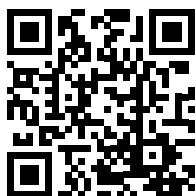
SBPDIS H Enter the code entering the corresponding option instead of

Code	Option	Description
SB	-	Smart Building
P	-	Parking
DIS	-	Display
<input type="checkbox"/>	AL	Arrow left
	AR	Arrow right
H	-	Disabled
<input type="checkbox"/>	T	Heating

Accessories

- 6 mm Hammer nuts for mounting display. 3 items with ordering number: F00S208HM6

Note: 6 mm bolt and brackets are not included.



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