Schick
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SP

SIGNAL-PARK

NUMERIC SIGN

SP2-6XX / 100mm

Presentation

1 CONTENTS

Note: For full product information, consult the technical guide.

2   PRESENTATION

The numeric sign are declined on two sizes (100mm and 180mm height). The 100mm sign is designed for the indoor information and the 180mm one for the outdoor information. On this document we going to introduce you the 100mm sign.

For more information about the 180mm height sign please refer to the specific documentation.

2.1   STATES ENUMERATION

Green for VACANT spaces

Amber for RESERVED spaces

Red for FULL or CLOSED spaces

2.2 DIMENSIONS

Note: *the length depends on the display type.*

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4 / **17**
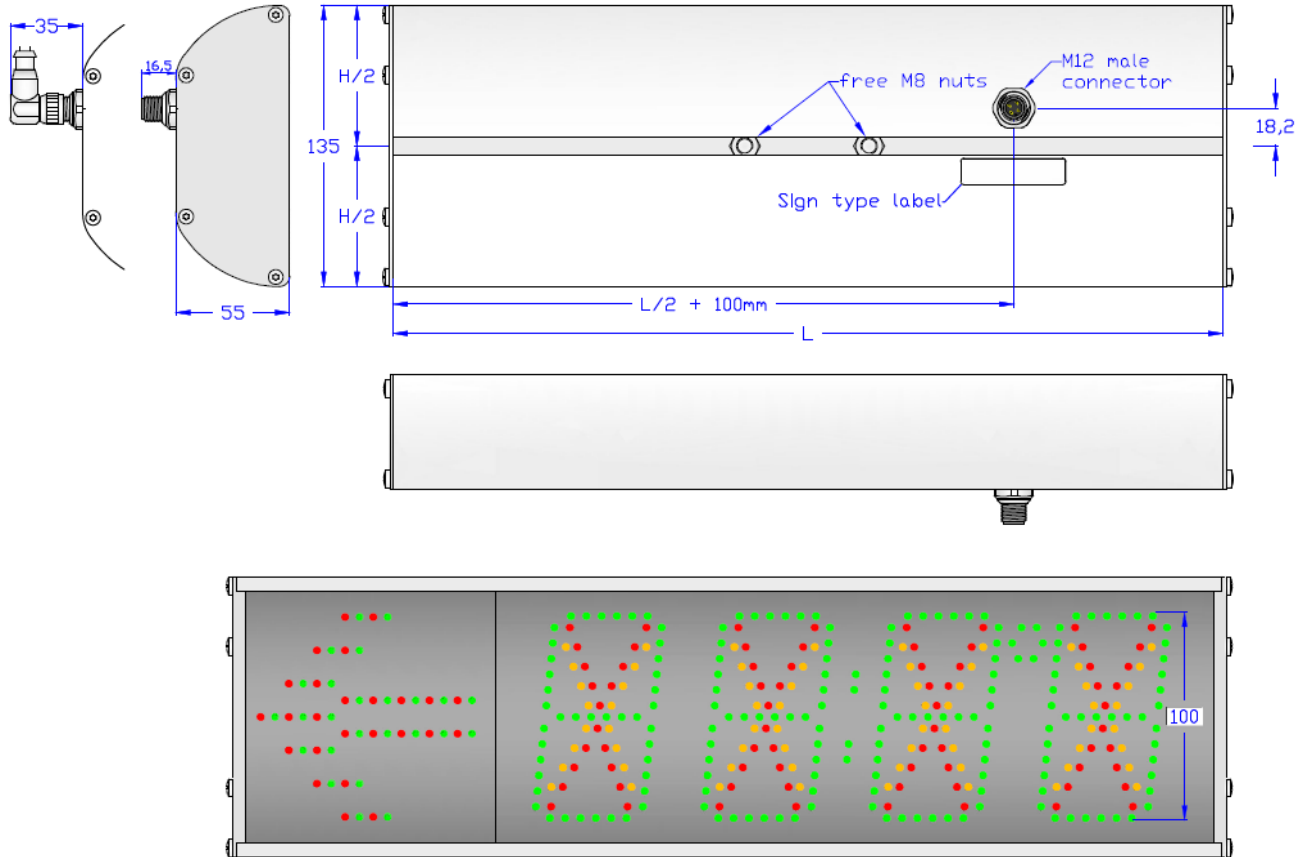
3 NUMERIC TYPES

3.1 3 DIGITS, SP2-630
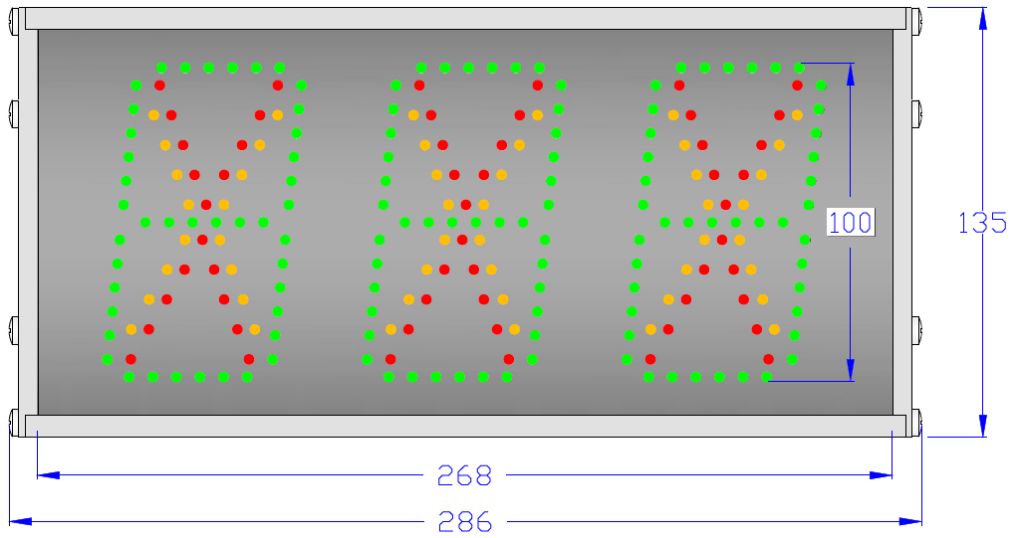
3.2 4 DIGITS, SP2-640
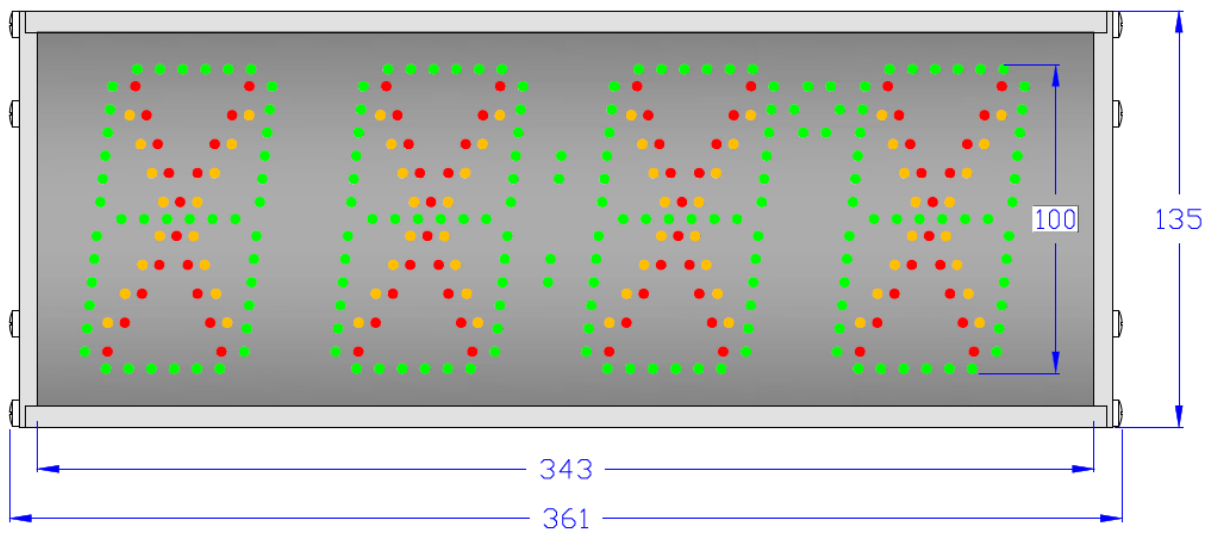
3.3   3 DIGITS WITH ARROW, SP2-631 (PREFERRED TYPE)

This standard model is the most used sign. Due to high production, this sign has an attractive price and short delivery time. Note that you can used it also in car park with more than thousand spaces because the sign shows "999" above thousand vacant spaces and probably your parking isn't empty all the time...

3.4   4 DIGITS WITH ARROW, SP2-641

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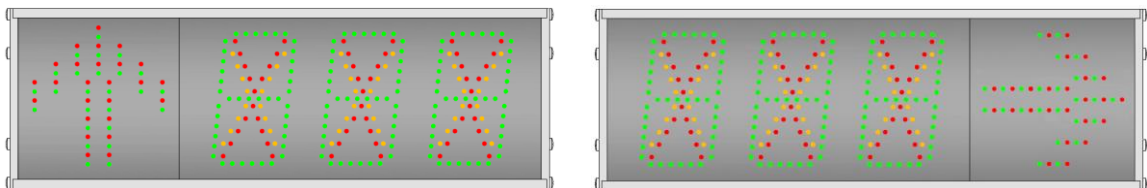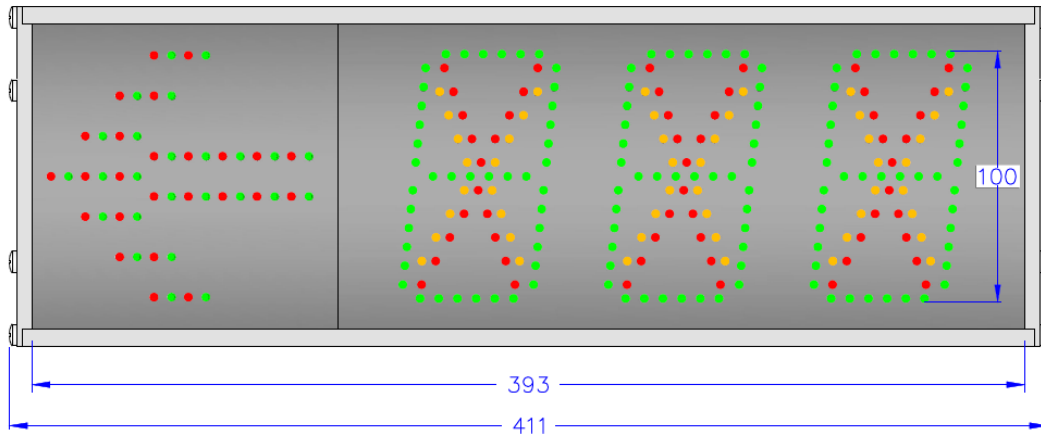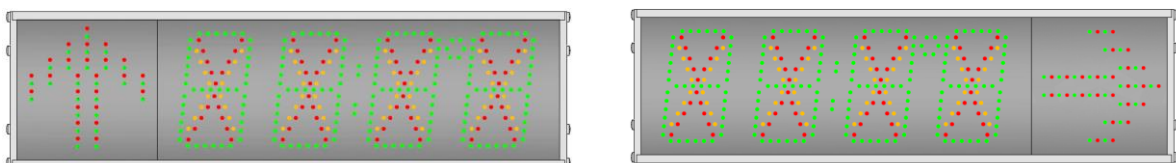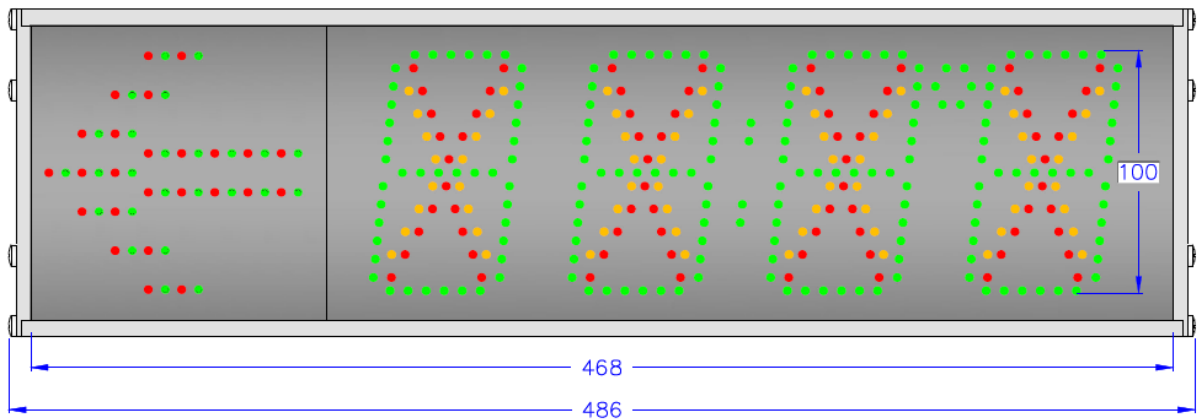
3.5 2 DIGITS HANDICAPPED WITH ARROW

This sign uses amber color instead of green to avoid confusion with public spaces.
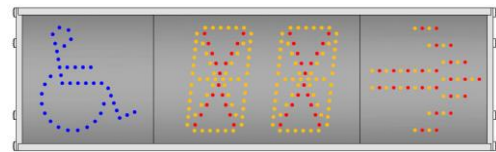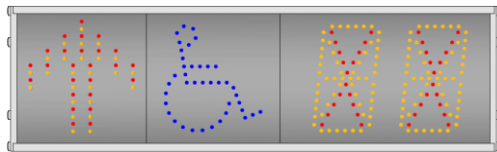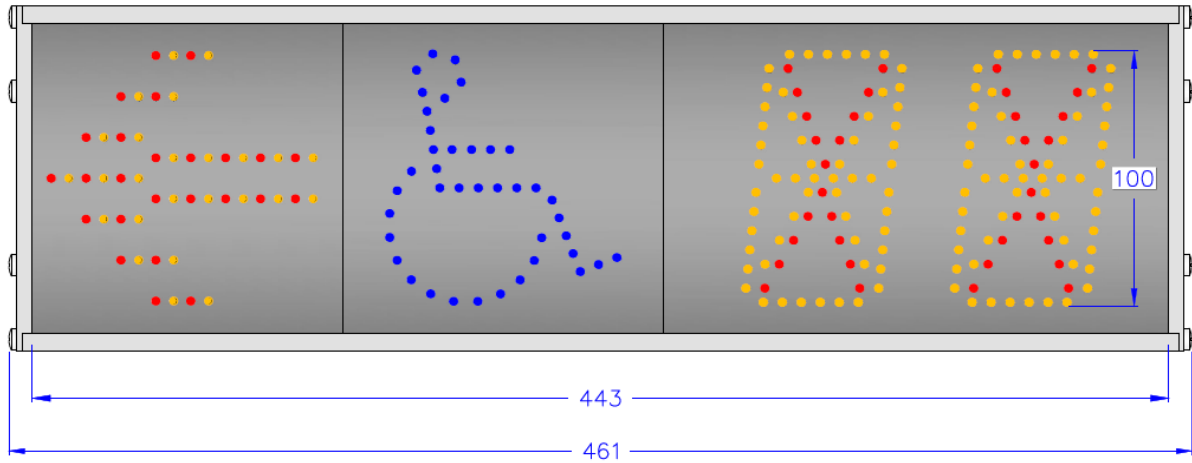
4 FIXED ALPHA

Alpha signs can be declined from 1 to 3 different texts in different colors. 3 texts signs are used for "VACANT/FULL/CLOSED" information. Mono-text signs are used for information into your car park like "EXIT". Of course specific declination can be made for other languages. Please consult us for additional information.

4.1 VACANT/FULL/CLOSED

4.2 EXIT

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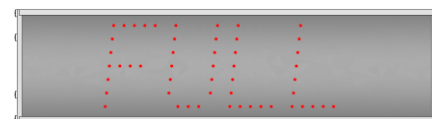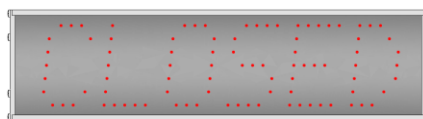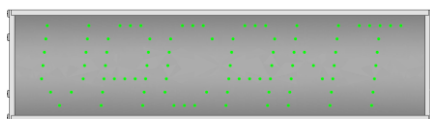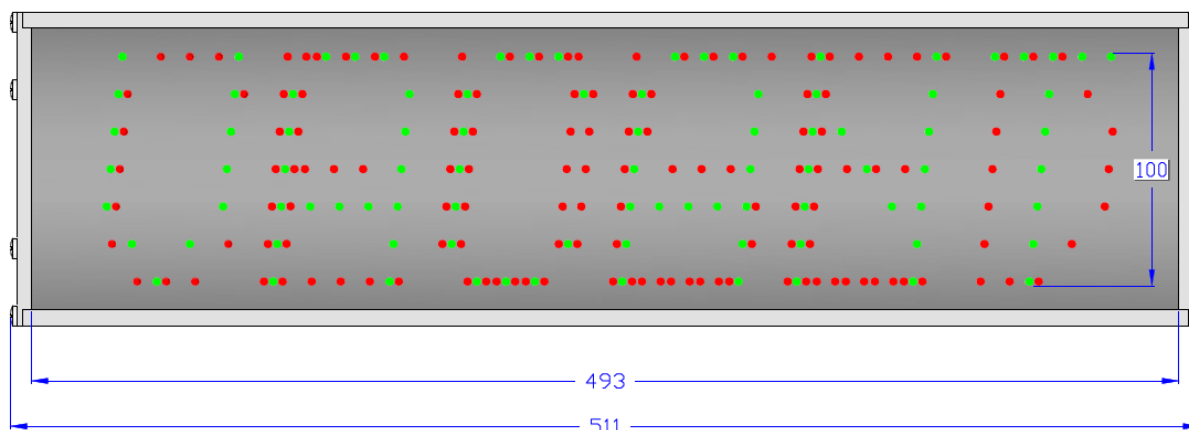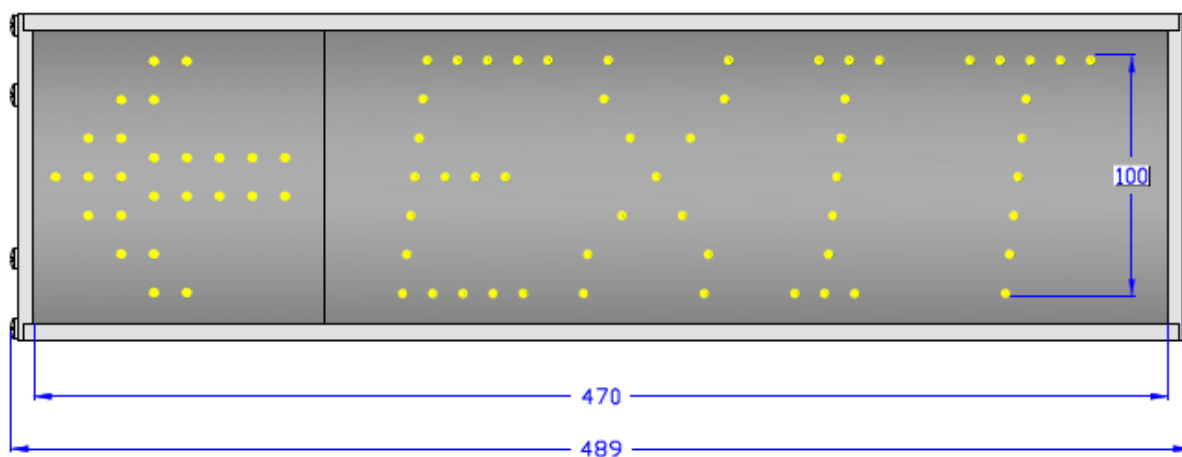
4.3   2 DIGITS, ELECTRIC CARS SYMBOL WITH ARROW, SP2-621

This option gives the opportunity to personalize the symbol as the few examples behind.
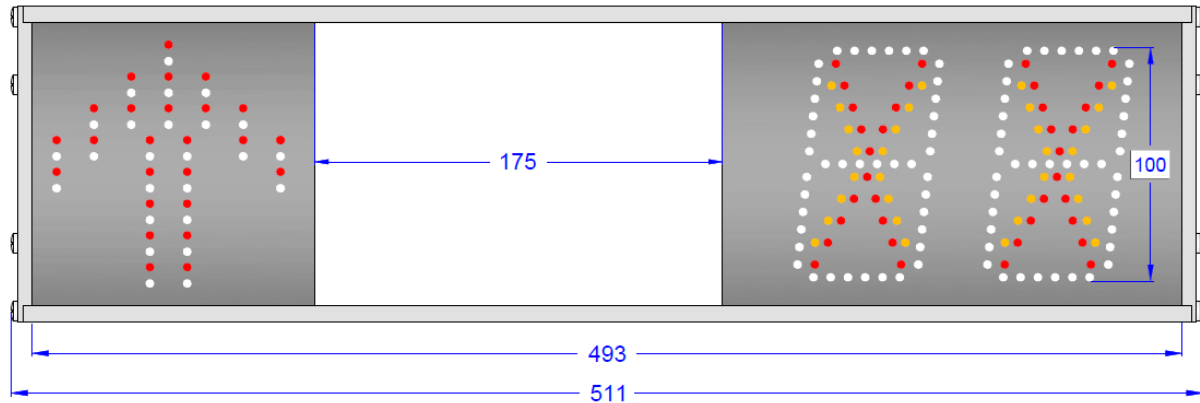
4.4   3 DIGITS, SYMBOL WITH ARROW, SP2-631
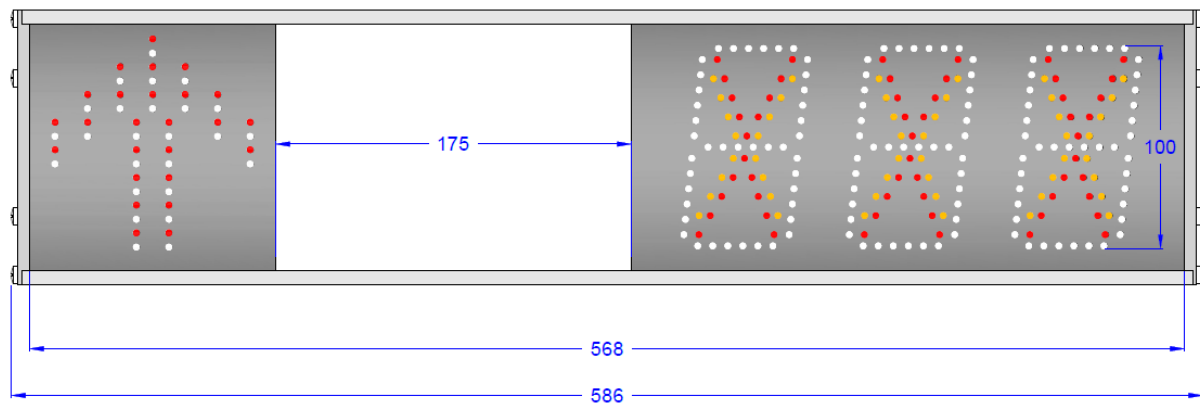
The 4 digits is available on request.

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4.5 INTEGRATION EXAMPLE

This is an example of integration into an outdoor enclosure.

Note: the enclosure must be built to avoid excess temperature rise inside it by using for example ventilation outlets and/or sunlight protection metal sheet.

5 INSTALLATION

5.1 CAMP FIXING SYSTEM

The most popular way to fix it is to use an Ø30mm aluminum tube.
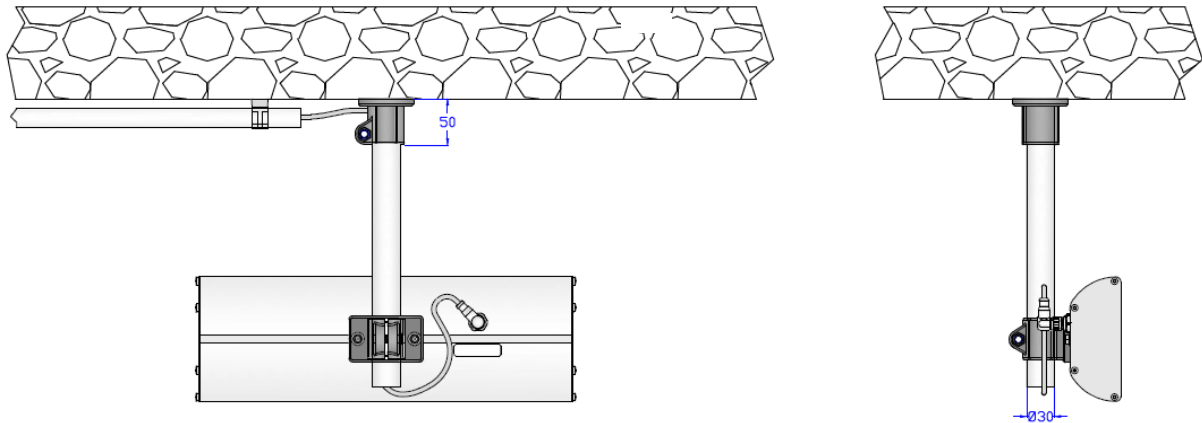
5.2 DIRECT ROOF FIXING

The alternative way to fix the sign at the roof is to using for example a bended metal sheet.
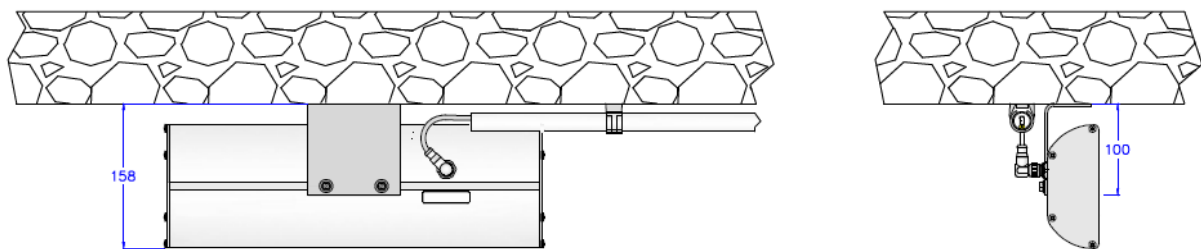
6 OPTIONS

6.1 COOLING FAN

On option the sign can be shipped with an integrated cooling fan. This option is recommended when the sign is installed inside an external enclosure exposed to the sunbeam.

6.2 OUTPUTS

On request 2 outputs (photo-MOS) are available for driving external devices. These outputs can be used for example to drive a green/red traffic light, main entrance barrier blocking, etc. Contact rating is 48Vdc/ac @ 600mA.

Output	Information
1	VACANT/FULL
2	ON/OFF

Remark: It's also possible to use a relay card installed inside the computer to drive a third party "VACANT/FULL" sign. Please consult the PCI7250 relay card presentation documentation.
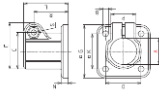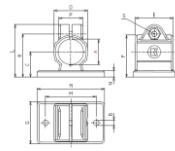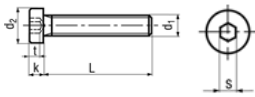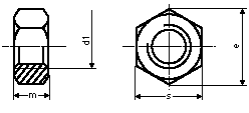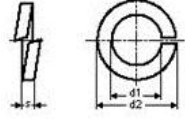
6.3 INPUTS

On request an opto-isolated input is available for forcing the sign to the "FULL" state. This can be uses for example to force the main entrance sign to "FULL" when the entrance barrier is blocked to guarantee information integrity.
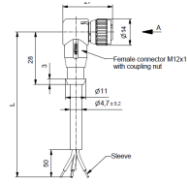
Input	Wire	Command
1	*blue*/*brown*	FULL
2	*blue*/*black*	CLOSED

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7 ACCESSORIES

7.1 FIXING SOLUTION

LANG CLAMP			
Art.	Diameter		
3840	Ø30mm		
CLAMP BASE			
Art.	Diameter		
3841	Ø30mm		
SOCKET HEAD CAP SCREWS			
Art.	Size		
200330	M8		
NUTS			
Art.	Size		
200113	M8		
SPRING LOCK WASHERS			
Art.	Size		
200331	M8		
SAW SET SQUARE			
Art.	Size		
00412	M6		

7.2 CONNECTING

POWER SUPPLY and COMMUNICATION			
Art.	Length		
42670	**60cm**		
42670.020	200cm		

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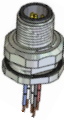
8 FEATURES

Character height	100mm
Display type	7 segments
Addressing	1 to 240
Ambient light sensor	0 to 2500lx
Variable LED intensity	3.25% to 100% (automatic or manual)
Possible display state	**NUMBER,** **NEARLY FULL,** **FULL,** **CLOSED,** **RESERVED,** *ADDRESS,* *TIME (12H/24H),* *DATE (DDMM, MMDD, MMYY),* *TEMPERATURE (°C and °F)* *LUXMETER* *VOLTMETER* *USER SEQUENCE*
LED synchronization	✓
Internal temperature measurement	✓
Field updatable embedded software	✓
Input/output option	✓

9 ELECTRICAL CONNECTIONS

9.1 MAIN CONNECTION

The main connection regroups the power supply and the data bus in one M12 male connector at the rear of the sign.

		Designation	Color	M12 Pin
	POWER bus	+48V	BROWN	1
		0V	BLUE	3
	DATA bus	D+	WHITE	2
		D-	BLACK	4

10 SHORT SPECIFICATIONS

10.1 GENERAL

Size	L x H135mm x P55mm (without connectors) *Length is depending of the type*
Housing material	Anodized aluminium Lateral cap: ABS, grey RAL7040 Front: PMMA (Plexiglas® XT)
Operating temperature range	-25°C to 55°C (*-13°F to +131°F*)
Degree of protection	IP44 (IP67 for M12 connector) *IP30 (with cooling fan option)*

10.2 ELECTRICAL

Power supply	48VDC nominal (43.0VDC to 48.5VDC)
Insulation category	Class III
Communication bus standard	RS-485, 2 wires (half-duplex)

10.3 LED

The LED display of the signs uses high intensity surface mounted LED with lens.

Color	100% Intensity (typ.)	Wavelength
Green	1600mcd	525nm
Red	1600mcd	626nm
Amber	1600mcd	590nm
Blue	700mcd	470nm

SIGNAL-PARK

SIGNS

100mm

Dynamic Display
Enseigne Dynamique

Table of contents / Table des matières

TECHNICAL DATA SHEET

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Nomenclature English

SP2-6☐☐☐☐☐ - ☐☐☐☐☐

Digits

3	**3 digits**
N	N = 0, 2, **3** or 4 digits
E	VACANT/FULL/CLOSED
F	LIBRE/COMPLET/FERME
G	FREI/BESETZT/GESCHLOSSEN

Arrow

0	No Arrow
1	**1 arrow,** orientation to be defined
U	1 UP arrow
L	1 LEFT arrow
R	1 RIGHT arrow

Digits colour

H	**High intensity GREEN LED**
A	Amber
N	White
~~B~~	~~Blue~~

Signs

Z	**Without sign**
H	Blue LED Handicap sign
S	175mm back lighted sign
Tx	Fixed text in white LED (100mm)
	x = characters count

Options

Z	**Without option**
R	Outputs (FULL, ON/OFF)
H	Inputs (FULL forced)
V	Ventilated (cooling fan)
W	H and V options

Reserve

Z	-

Fixation

Z	**No fixation**
	Order fixation separately!

Main electrical connection

P	M12 plug

Voltage

E	48VDC execution
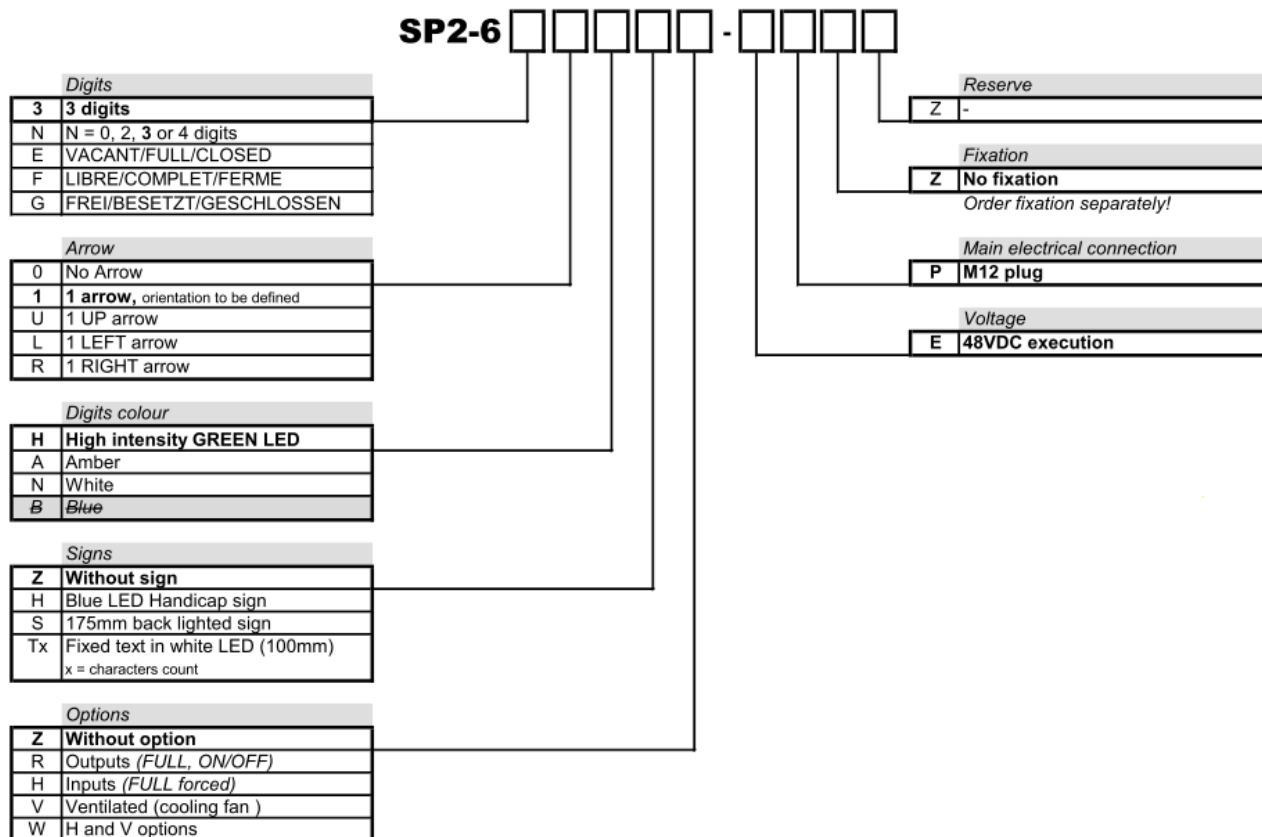
Note:
Preferred type in **BOLD**
Undefined position, not known or not applicable, the letter code is replaced by x or X. Example: SP2-631HZZ-ExZZ
For exact reference, use the article number.

TECHNICAL DATA SHEET

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Nomenclature Français

SP2-1 ☐☐☐☐ - ☐☐☐☐

	Type	
1	**Détecteur de place/entrée**	
4	Détecteur double [1] (Rampe de comptage)	

[1] *see separate data sheet*

	Boîtier	
4	**Boîtier rond mince**	

	LED	
H	**LED vertes à haute intensité**	
B	LEDs bleue [2]	
N	LEDs blanche	
W	Sans LEDs *(pour LED avancée)*	
H2	LED vertes double sens à haute intensité	
B2	LEDs bleue double sens [2]	

[2] *Pour place Handicapé*

	Options	
Z	**Sans option**	
J	Relais 1 *(Libre/occupé)*	
K	Relais 2	
R	Relais 1 + 2	
H	Relais 1 *(Libre/occupé)* [4]	
MA	Maître [3]	
MR	Maître avec relais 1 et 2 [3]	
S	Esclave [3]	
V	Annonce vocale	

[3] *SP2-144 Seulement*
[4] *hauteur fixée par magnetisme*

	réserve	
Z	-	

	Fixation	
Z	**Sans fixation**	

Fixation à commander séparément!

	Connexion électrique principale	
M	Presse-étoupe M16 avec câble	
P	**Fiche M12**	
Z	Sans câble d'alimentation	

	Voltage	
E	**Exécution à 48VDC**	
Z	Sans alimentation [4]	

Note:
Type préféré en **Gras**
Position non définie, ne sait pas ou ne s'applique pas, la lettre de code est remplacé par exemple x ou X.: SP2-114HZ-ExZZ

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Dynamic Display
Enseigne Dynamique

SP2-601 / 100mm

Order N°Article :3585

Technical Specifications / Caracteristiques techniques

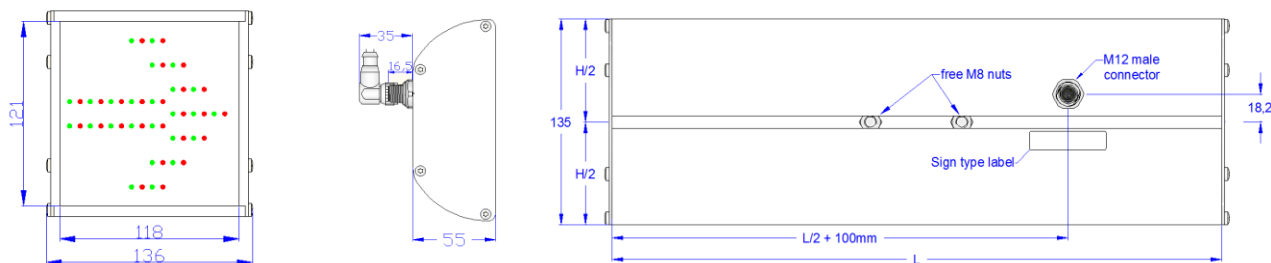|	
Size Taille:	L136mm x H135mm x P55mm (without connectors)
Weight Poids:	0.5Kg
Housing material Boîtier:	Anodized aluminum Lateral cap: ABS, grey RAL7040 Front: PMMA (Plexiglas® XT) *UL94-V0 compliant plastics (plastiques conformes)*
Operating temperature range Temperature de fonctionnement:	-25°C to 55°C *(-13°F to +131°F)*
Storage temperature range: Plage de temperature de stockage:	-40°C to 85°C *(-40°F to +185°F)*
Relative humidity Humidté relative:	5-95%RH **(not condensing)** *(sans condensation)*
Degree of protection Degré de protection:	IP44 (IP67 for M12 connectors) *(IP67 avec connecteurs M12)* IP30 (Cooling fan option) *(option ventilée)*

Electrical / electricité

Power supply: Alimentation:	48VDC nominal (43.0VDC to 48.5VDC) *Note: voltages above 49.0V destroys internal surge protection* *Note: tensions supérieures à 49.0V détruiront la protection interne.*
Insulation category Catégorie d'isolation:	Class III
Consumption Consommation:	300mA max to 700mA max.Communication bus standard RS-485 ,2 wires (half-duplex) / *RS-485, 2 fils (semi-duplex)*

Inputs (options) / Entrées (options)

Insulation Isolation	3Kv max.
Driving current Courant de commande	7mA typ.

Outputs (options) / Sorties (options)

Insulation Isolation	3KV max.
Voltage Tension	48Vdc / 30Vac max.
Current Courant	600mA max.

LED DISPLAY / AFFICHAGE LED

The LED display of the signs uses high intensity surface mounted LED with lens. Color and intensity can change slightly between productions due to components tolerances.

L'affichage de l'enseigne utilise des LED's de haute intensité. La couleur ainsi que l'intensité des LED's peuvent changer légèrement suivant la production en raison de la tolérance des composants.
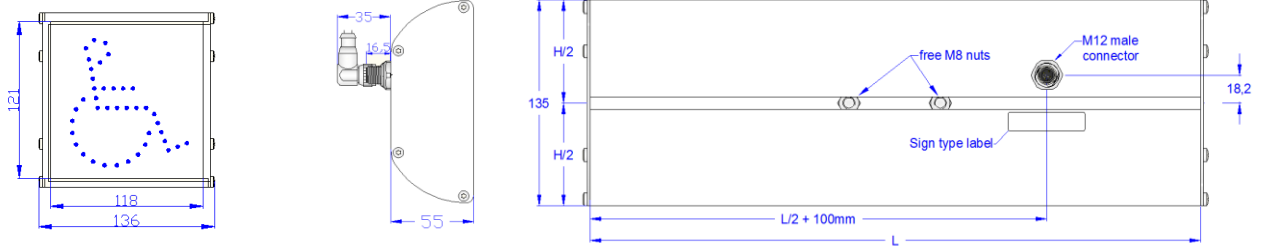
Character height Hauteur des caractères:	100mm
Viewing angle (half intensity): Angle de vue (semi- intensité)	30°
Viewing angle Angle de vue	180°
Viewing distance Distance lisible	60m

Dynamic Display
Enseigne Dynamique

SP2-600ZHZ / 100mm

Order N°Article :3648

Technical Specifications / Caracteristiques techniques

Size Taille:	L136mm x H135mm x P55mm (without connectors)
Weight Poids:	0.5Kg
Housing material Boîtier:	Anodized aluminum Lateral cap: ABS, grey RAL7040 Front: PMMA (Plexiglas® XT) *UL94-V0 compliant plastics (plastiques conformes)*
Operating temperature range Temperature de fonctionnement:	-25°C to 55°C *(-13°F to +131°F)*
Storage temperature range: Plage de temperature de stockage:	-40°C to 85°C *(-40°F to +185°F)*
Relative humidity Humidté relative:	5-95%RH (not condensing) (sans condensation)
Degree of protection Degré de protection:	IP44 (IP67 for M12 connectors) (IP67 avec connecteurs M12) IP30 (Cooling fan option) (option ventilée)

Electrical / electricité

Power supply: Alimentation:	48VDC nominal (43.0VDC to 48.5VDC) *Note: voltages above 49.0V destroys internal surge protection* *Note: tensions supérieures à 49.0V détruiront la protection interne.*
Insulation category Catégorie d'isolation:	Class III ◇III◇
Consumption Consommation:	300mA max to 700mA max.Communication bus standard RS-485 ,2 wires (half-duplex) / RS-485, 2 fils (semi-duplex)

TECHNICAL DATA SHEET

Inputs (options) / Entrées (options)

Insulation Isolation	3Kv max.
Driving current Courant de commande	7mA typ.

Outputs (options) / Sorties (options)

Insulation Isolation	3KV max.
Voltage Tension	48Vdc / 30Vac max.
Current Courant	600mA max.

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The LED display of the signs uses high intensity surface mounted LED with lens. Color and intensity can change slightly between productions due to components tolerances.

L'affichage de l'enseigne utilise des LED's de haute intensité. La couleur ainsi que l'intensité des LED's peuvent changer légèrement suivant la production en raison de la tolérance des composants.

Character height Hauteur des caractères:	100mm
Viewing angle (half intensity): Angle de vue (semi- intensité)	30°
Viewing angle Angle de vue	180°
Viewing distance Distance lisible	60m

TECHNICAL DATA SHEET

SP2-620 / 100mm
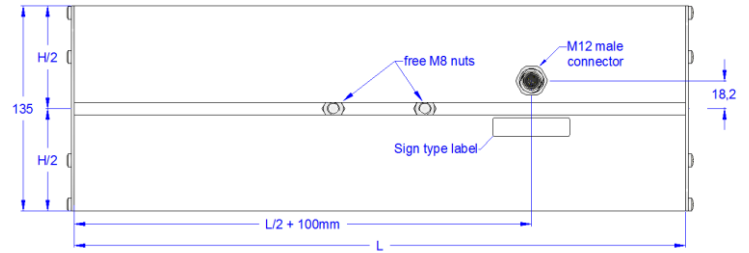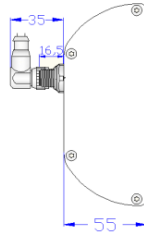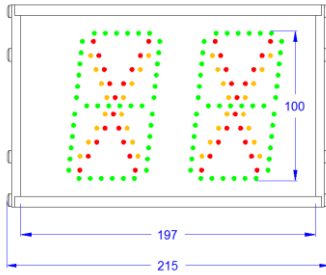
Order N°Article: 3850 / 3850V (cooling fan option)

Technical Specifications / Caracteristiques techniques

Size Taille:	L215mm x H135mm x P55mm (without connectors)
Weight Poids:	0.6Kg
Housing material Boîtier:	Anodized aluminum Lateral cap: ABS, grey RAL7040 Front: PMMA (Plexiglas® XT) *UL94-V0 compliant plastics* (plastiques conformes)
Operating temperature range Temperature de fonctionnement:	-25°C to 55°C (*-13°F to +131°F*)
Storage temperature range: Plage de temperature de stockage:	-40°C to 85°C (*-40°F to +185°F*)
Relative humidity Humidté relative:	5-95%RH (not condensing) (sans condensation)
Degree of protection Degré de protection:	IP44 (IP67 for M12 connectors) (IP67 avec connecteurs M12) IP30 (Cooling fan option) (option ventilée)

Electrical / Electricité

Power supply: Alimentation:	48VDC nominal (43.0VDC to 48.5VDC) *Note: voltages above 49.0V destroys internal surge protection* *Note: tensions supérieures à 49.0V détruiront la protection interne.*
Insulation category Catégorie d'isolation:	Class III
Consumption Consommation:	300mA max to 700mA max. Communication bus standard RS-485 ,2 wires (half-duplex) / RS-485, 2 fils (semi-duplex)

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Inputs (options) / Entrées (options)

Insulation Isolation	3Kv max.
Driving current Courant de commande	7mA typ.

Outputs (options) / Sorties (options)

Insulation Isolation	3KV max.
Voltage Tension	48Vdc / 30Vac max.
Current Courant	600mA max.

LED DISPLAY / AFFICHAGE LED

The LED display of the signs uses high intensity surface mounted LED with lens. Color and intensity can change slightly between productions due to components tolerances.

L'affichage de l'enseigne utilise des LED's de haute intensité. La couleur ainsi que l'intensité des LED's peuvent changer légèrement suivant la production en raison de la tolérance des composants.

Character height Hauteur des caractères:	100mm
Display type Type d'affichage:	7 segments
LED's per segment LED's par segment:	5 to 7
Red crosses Croix rouge	Yes / Oui
Amber crosses Croix ambrée	Yes / Oui
Viewing angle (half intensity): Angle de vue (semi- intensité)	30°
Viewing angle Angle de vue	180°
Viewing distance Distance lisible	60m

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Dynamic Display
Enseigne Dynamique

Schick electronicsa

SP2-620H / 100mm

Order N°Article: 3857

Technical Specifications / Caracteristiques techniques

Size
Taille:

L340mm x H135mm x P55mm (without connectors)

Weight
Poids:

0.8Kg

Housing material
Boîtier:

Anodized aluminum
Lateral cap: ABS, grey RAL7040
Front: PMMA (Plexiglas® XT)
UL94-V0 compliant plastics (plastiques conformes)

Operating temperature range
Temperature de fonctionnement:

-25°C to 55°C (-13°F to +131°F)

Storage temperature range:
Plage de temperature de stockage:

-40°C to 85°C (-40°F to +185°F)

Relative humidity
Humidté relative:

5-95%RH (not condensing) (sans condensation)

Degree of protection
Degré de protection:

IP44 (IP67 for M12 connectors) (IP67 avec connecteurs M12)

IP30 (Cooling fan option) (option ventilée)

Electrical / electricité

Power supply:
Alimentation:

48VDC nominal (43.0VDC to 48.5VDC)
Note: voltages above 49.0V destroys internal surge protection
Note: tensions supérieures à 49.0V détruiront la protection interne.

Insulation category
Catégorie d'isolation:

Class III

Consumption
Consommation:

300mA max to 700mA max.Communication bus standard
RS-485 ,2 wires (half-duplex) / RS-485, 2 fils (semi-duplex)

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Dynamic Display
Enseigne Dynamique

Inputs (options) / Entrées (options)

Insulation Isolation	3Kv max.
Driving current Courant de commande	7mA typ.

Outputs (options) / Sorties (options)

Insulation Isolation	3KV max.
Voltage Tension	48Vdc / 30Vac max.
Current Courrant	600mA max.

LED DISPLAY / AFFICHAGE LED

The LED display of the signs uses high intensity surface mounted LED with lens. Color and intensity can change slightly between productions due to components tolerances.

L'affichage de l'enseigne utilise des LED's de haute intensité. La couleur ainsi que l'intensité des LED's peuvent changer légèrement suivant la production en raison de la tolérance des composants.

Character height Hauteur des caractères:	100mm
Display type Type d'affichage:	7 segments
LED's per segment LED's par segment:	5 to 7
Red crosses Croix rouge	Yes / Oui
Amber crosses Croix ambrée	Yes / Oui
Viewing angle (half intensity): Angle de vue (semi- intensité)	30°
Viewing angle Angle de vue	180°
Viewing distance Distance lisible	60m

Dynamic Display
Enseigne Dynamique

SP2-621 / 100mm

Order N°Article: 3582 / 3582V (cooling fan option)

Technical Specifications / Caracteristiques techniques

Size
Taille: — L336mm x H135mm x P55mm (without connectors)

Weight
Poids: — 0.7Kg

Housing material
Boîtier: — Anodized aluminum
Lateral cap: ABS, grey RAL7040
Front: PMMA (Plexiglas® XT)
UL94-V0 compliant plastics (plastiques conformes)

Operating temperature range
Temperature de fonctionnement: — -25°C to 55°C (-13°F to +131°F)

Storage temperature range:
Plage de temperature de stockage: — -40°C to 85°C (-40°F to +185°F)

Relative humidity
Humidté relative: — 5-95%RH (not condensing) (sans condensation)

Degree of protection
Degré de protection: — IP44 (IP67 for M12 connectors) (IP67 avec connecteurs M12)

IP30 (Cooling fan option) (option ventilée)

Electrical / electricité

Power supply:
Alimentation: — 48VDC nominal (43.0VDC to 48.5VDC)
Note: voltages above 49.0V destroys internal surge protection
Note: tensions supérieures à 49.0V détruiront la protection interne.

Insulation category
Catégorie d'isolation: — Class III

Consumption
Consommation: — 300mA max to 700mA max.Communication bus standard
RS-485 ,2 wires (half-duplex) / RS-485, 2 fils (semi-duplex)

Dynamic Display
Enseigne Dynamique

Inputs (options) / Entrées (options)

Insulation Isolation	3Kv max.
Driving current Courant de commande	7mA typ.

Outputs (options) / Sorties (options)

Insulation Isolation	3KV max.
Voltage Tension	48Vdc / 30Vac max.
Current Courrant	600mA max.

LED DISPLAY / AFFICHAGE LED

The LED display of the signs uses high intensity surface mounted LED with lens. Color and intensity can change slightly between productions due to components tolerances.

L'affichage de l'enseigne utilise des LED's de haute intensité. La couleur ainsi que l'intensité des LED's peuvent changer légèrement suivant la production en raison de la tolérance des composants.

Character height Hauteur des caractères:	100mm
Display type Type d'affichage:	7 segments
LED's per segment LED's par segment:	5 to 7
Red crosses Croix rouge	Yes / Oui
Amber crosses Croix ambrée	Yes / Oui
Viewing angle (half intensity): Angle de vue (semi- intensité)	30°
Viewing angle Angle de vue	180°
Viewing distance Distance lisible	60m

Dynamic Display
Enseigne Dynamique

Schick electronicSA

SP2-621H / 100mm

Order N°Article: 3587 / 3587V (cooling fan option)

Technical Specifications / Caracteristiques techniques

Size
Taille:

L461mm x H135mm x P55mm (without connectors)

Weight
Poids:

1.68Kg

Housing material
Boîtier:

Anodized aluminum
Lateral cap: ABS, grey RAL7040
Front: PMMA (Plexiglas® XT)
UL94-V0 compliant plastics (plastiques conformes)

Operating temperature range
Temperature de fonctionnement:

-25°C to 55°C *(-13°F to +131°F)*

Storage temperature range:
Plage de temperature de stockage:

-40°C to 85°C *(-40°F to +185°F)*

Relative humidity
Humidté relative:

5-95%RH (not condensing) (sans condensation)

Degree of protection
Degré de protection:

IP44 (IP67 for M12 connectors) (IP67 avec connecteurs M12)

IP30 (Cooling fan option) (option ventilée)

Electrical / electricité

Power supply:
Alimentation:

48VDC nominal (43.0VDC to 48.5VDC)
Note: voltages above 49.0V destroys internal surge protection
Note: tensions supérieures à 49.0V détruiront la protection interne.

Insulation category
Catégorie d'isolation:

Class III

Consumption
Consommation:
RS-485 ,2 wires (half-duplex) / RS-485, 2 fils (semi-duplex)

300mA max to 700mA max.Communication bus standard

Schick electronicSA

Dynamic Display
Enseigne Dynamique

Inputs (options) / Entrées (options)

Insulation Isolation	3Kv max.
Driving current Courant de commande	7mA typ.

Outputs (options) / Sorties (options)

Insulation Isolation	3KV max.
Voltage Tension	48Vdc / 30Vac max.
Current Courrant	600mA max.

LED display / Affichage LED

The LED display of the signs uses high intensity surface mounted LED with lens. Color and intensity can change slightly between productions due to components tolerances.

L'affichage de l'enseigne utilise des LED's de haute intensité. La couleur ainsi que l'intensité des LED's peuvent changer légèrement suivant la production en raison de la tolérance des composants.

Character height Hauteur des caractères:	100mm
Display type Type d'affichage:	7 segments
LED's per segment LED's par segment:	5 to 7
Red crosses Croix rouge	Yes / Oui
Amber crosses Croix ambrée	Yes / Oui
Viewing angle (half intensity): Angle de vue (semi- intensité)	30°
Viewing angle Angle de vue	180°
Viewing distance Distance lisible	60m

Dynamic Display
Enseigne Dynamique

SP2-630 / 100mm

Order N°Article: 3586 / 3586V (cooling fan option)

Technical Specifications / Caracteristiques techniques

Size Taille:	L286mm x H135mm x P55mm (without connectors)
Weight Poids:	0.9Kg
Housing material Boîtier:	Anodized aluminum Lateral cap: ABS, grey RAL7040 Front: PMMA (Plexiglas® XT) *UL94-V0 compliant plastics (plastiques conformes)*
Operating temperature range Temperature de fonctionnement:	-25°C to 55°C *(-13°F to +131°F)*
Storage temperature range: Plage de temperature de stockage:	-40°C to 85°C *(-40°F to +185°F)*
Relative humidity Humidté relative:	5-95%RH **(not condensing)** *(sans condensation)*
Degree of protection Degré de protection:	IP44 (IP67 for M12 connectors) *(IP67 avec connecteurs M12)* IP30 (Cooling fan option) *(option ventilée)*

Electrical / electricité

Power supply: Alimentation:	48VDC nominal (43.0VDC to 48.5VDC) *Note: voltages above 49.0V destroys internal surge protection* *Note: tensions supérieures à 49.0V détruiront la protection interne.*
Insulation category Catégorie d'isolation:	Class III
Consumption Consommation:	300mA max to 700mA max.Communication bus standard RS-485 ,2 wires (half-duplex) / *RS-485, 2 fils (semi-duplex)*

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Dynamic Display
Enseigne Dynamique

Inputs (options) / Entrées (options)

Insulation Isolation	3Kv max.
Driving current Courant de commande	7mA typ.

Outputs (options) / Sorties (options)

Insulation Isolation	3KV max.
Voltage Tension	48Vdc / 30Vac max.
Current Courrant	600mA max.

LED display / Affichage LED

The LED display of the signs uses high intensity surface mounted LED with lens. Color and intensity can change slightly between productions due to components tolerances.

L'affichage de l'enseigne utilise des LED's de haute intensité. La couleur ainsi que l'intensité des LED's peuvent changer légèrement suivant la production en raison de la tolérance des composants.

Character height Hauteur des caractères:	100mm
Display type Type d'affichage:	7 segments
LED's per segment LED's par segment:	5 to 7
Red crosses Croix rouge	Yes / Oui
Amber crosses Croix ambrée	Yes / Oui
Viewing angle (half intensity): Angle de vue (semi- intensité)	30°
Viewing angle Angle de vue	180°
Viewing distance Distance lisible	60m

Dynamic Display
Enseigne Dynamique

Schick electronic SA

SP2-631 / 100mm

Order N°Article: 3583 / 3583V (cooling fan option

Technical Specifications / Caracteristiques techniques

Size Taille:	L411mm x H135mm x P55mm (without connectors)
Weight Poids:	1.2Kg
Housing material Boîtier:	Anodized aluminum Lateral cap: ABS, grey RAL7040 Front: PMMA (Plexiglas® XT) *UL94-V0 compliant plastics* (plastiques conformes)
Operating temperature range Temperature de fonctionnement:	-25°C to 55°C (-13°F to +131°F)
Storage temperature range: Plage de temperature de stockage:	-40°C to 85°C (-40°F to +185°F)
Relative humidity Humidté relative:	5-95%RH (not condensing) (sans condensation)
Degree of protection Degré de protection:	IP44 (IP67 for M12 connectors) (IP67 avec connecteurs M12) IP30 (Cooling fan option) (option ventilée)

Electrical / electricité

Power supply: Alimentation:	48VDC nominal (43.0VDC to 48.5VDC) *Note: voltages above 49.0V destroys internal surge protection* *Note: tensions supérieures à 49.0V détruiront la protection interne.*
Insulation category Catégorie d'isolation:	Class III
Consumption Consommation:	300mA max to 700mA max.Communication bus standard RS-485 ,2 wires (half-duplex) / RS-485, 2 fils (semi-duplex)

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Dynamic Display
Enseigne Dynamique

Inputs (options) / Entrées (options)

Insulation Isolation	3Kv max.
Driving current Courant de commande	7mA typ.

Outputs (options) / Sorties (options)

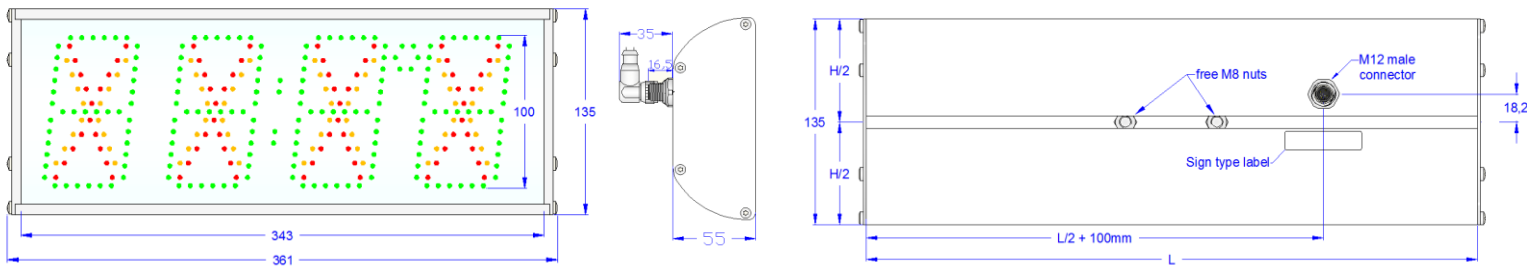|	
Insulation Isolation	3KV max.
Voltage Tension	48Vdc / 30Vac max.
Current Courant	600mA max.

LED display / Affichage LED

The LED display of the signs uses high intensity surface mounted LED with lens. Color and intensity can change slightly between productions due to components tolerances.

L'affichage de l'enseigne utilise des LED's de haute intensité. La couleur ainsi que l'intensité des LED's peuvent changer légèrement suivant la production en raison de la tolérance des composants.

Character height Hauteur des caractères:	100mm
Display type Type d'affichage:	7 segments
LED's per segment LED's par segment:	5 to 7
Red crosses Croix rouge	Yes / Oui
Amber crosses Croix ambrée	Yes / Oui
Viewing angle (half intensity): Angle de vue (semi- intensité)	30°
Viewing angle Angle de vue	180°
Viewing distance Distance lisible	60m

Dynamic Display
Enseigne Dynamique

SP2-640 / 100mm

Technical Specifications / Caracteristiques techniques

Size / Taille:	L361mm x H135mm x P55mm (without connectors)
Weight / Poids:	1.2Kg
Housing material / Boîtier:	Anodized aluminum Lateral cap: ABS, grey RAL7040 Front: PMMA (Plexiglas® XT) *UL94-V0 compliant plastics (plastiques conformes)*
Operating temperature range / Temperature de fonctionnement:	-25°C to 55°C *(-13°F to +131°F)*
Storage temperature range: / Plage de temperature de stockage:	-40°C to 85°C *(-40°F to +185°F)*
Relative humidity / Humidté relative:	5-95%RH **(not condensing)** *(sans condensation)*
Degree of protection / Degré de protection:	IP44 (IP67 for M12 connectors) *(IP67 avec connecteurs M12)* IP30 (Cooling fan option) *(option ventilée)*

Electrical / electricité

Power supply: / Alimentation:	48VDC nominal (43.0VDC to 48.5VDC) *Note: voltages above 49.0V destroys internal surge protection* *Note: tensions supérieures à 49.0V détruiront la protection interne.*
Insulation category / Catégorie d'isolation:	Class III
Consumption / Consommation:	300mA max to 700mA max. Communication bus standard RS-485 ,2 wires (half-duplex) / *RS-485, 2 fils (semi-duplex)*

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TECHNICAL DATA SHEET

Dynamic Display
Enseigne Dynamique

Inputs (options) / Entrées (options)

Insulation	3Kv max.
Driving current	7mA typ.

Outputs (options) / Sorties (options)

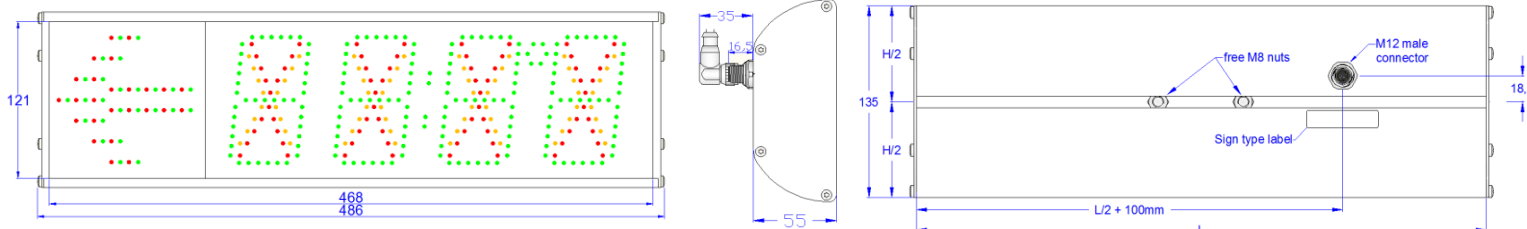|	
Insulation	3KV max.
Voltage	48Vdc / 30Vac max.
Current	600mA max.

LED display / Affichage LED

The LED display of the signs uses high intensity surface mounted LED with lens. Color and intensity can change slightly between productions due to components tolerances.

L'affichage de l'enseigne utilise des LED's de haute intensité. La couleur ainsi que l'intensité des LED's peuvent changer légèrement suivant la production en raison de la tolérance des composants.

Character height Hauteur des caractères:	100mm
Display type Type d'affichage:	7 segments
LED's per segment LED's par segment:	7 to 9
Red crosses Croix rouge	Yes / Oui
Amber crosses Croix ambrée	Yes / Oui
Viewing angle (half intensity): Angle de vue (semi- intensité)	30°
Viewing angle Angle de vue	180°
Viewing distance Distance lisible	60m

Dynamic Display
Enseigne Dynamique

Schick electronic sa

SP2-641 / 100mm

Order N°Article: 3584

Technical Specifications / Caracteristiques techniques

Size
Taille:

L486mm x H135mm x P55mm (without connectors)

Weight
Poids:

1.8Kg

Housing material
Boîtier:

Anodized aluminum
Lateral cap: ABS, grey RAL7040
Front: PMMA (Plexiglas® XT)
UL94-V0 compliant plastics (plastiques conformes)

Operating temperature range
Temperature de fonctionnement:

-25°C to 55°C *(-13°F to +131°F)*

Storage temperature range:
Plage de temperature de stockage:

-40°C to 85°C *(-40°F to +185°F)*

Relative humidity
Humidté relative:

5-95%RH **(not condensing)** (sans condensation)

Degree of protection
Degré de protection:

IP44 (IP67 for M12 connectors) (IP67 avec connecteurs M12)

IP30 (Cooling fan option) (option ventilée)

Electrical / electricité

Power supply:
Alimentation:

48VDC nominal (43.0VDC to 48.5VDC)
Note: voltages above 49.0V destroys internal surge protection
Note: tensions supérieures à 49.0V détruiront la protection interne.

Insulation category
Catégorie d'isolation:

Class III

Consumption
Consommation:

300mA max to 700mA max.Communication bus standard
RS-485 ,2 wires (half-duplex) / RS-485, 2 fils (semi-duplex)

TECHNICAL DATA SHEET

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Inputs (options) / Entrées (options)

Insulation Isolation	3Kv max.
Driving current Courant de commande	7mA typ.

Outputs (options) / Sorties (options)

Insulation Isolation	3KV max.
Voltage Tension	48Vdc / 30Vac max.
Current Courant	600mA max.

LED DISPLAY / AFFICHAGE LED

The LED display of the signs uses high intensity surface mounted LED with lens. Color and intensity can change slightly between productions due to components tolerances.

L'affichage de l'enseigne utilise des LED's de haute intensité. La couleur ainsi que l'intensité des LED's peuvent changer légèrement suivant la production en raison de la tolérance des composants.

Character height Hauteur des caractères:	100mm
Display type Type d'affichage:	7 segments
LED's per segment LED's par segment:	7 to 9
Red crosses Croix rouge	Yes / Oui
Amber crosses Croix ambrée	Yes / Oui
Viewing angle (half intensity): Angle de vue (semi- intensité)	30°
Viewing angle Angle de vue	180°
Viewing distance Distance lisible	60m

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