



SIGNAL-PARK



NUMERIC SIGN
SP2-6XX / 180mm
Presentation

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2 PRESENTATION

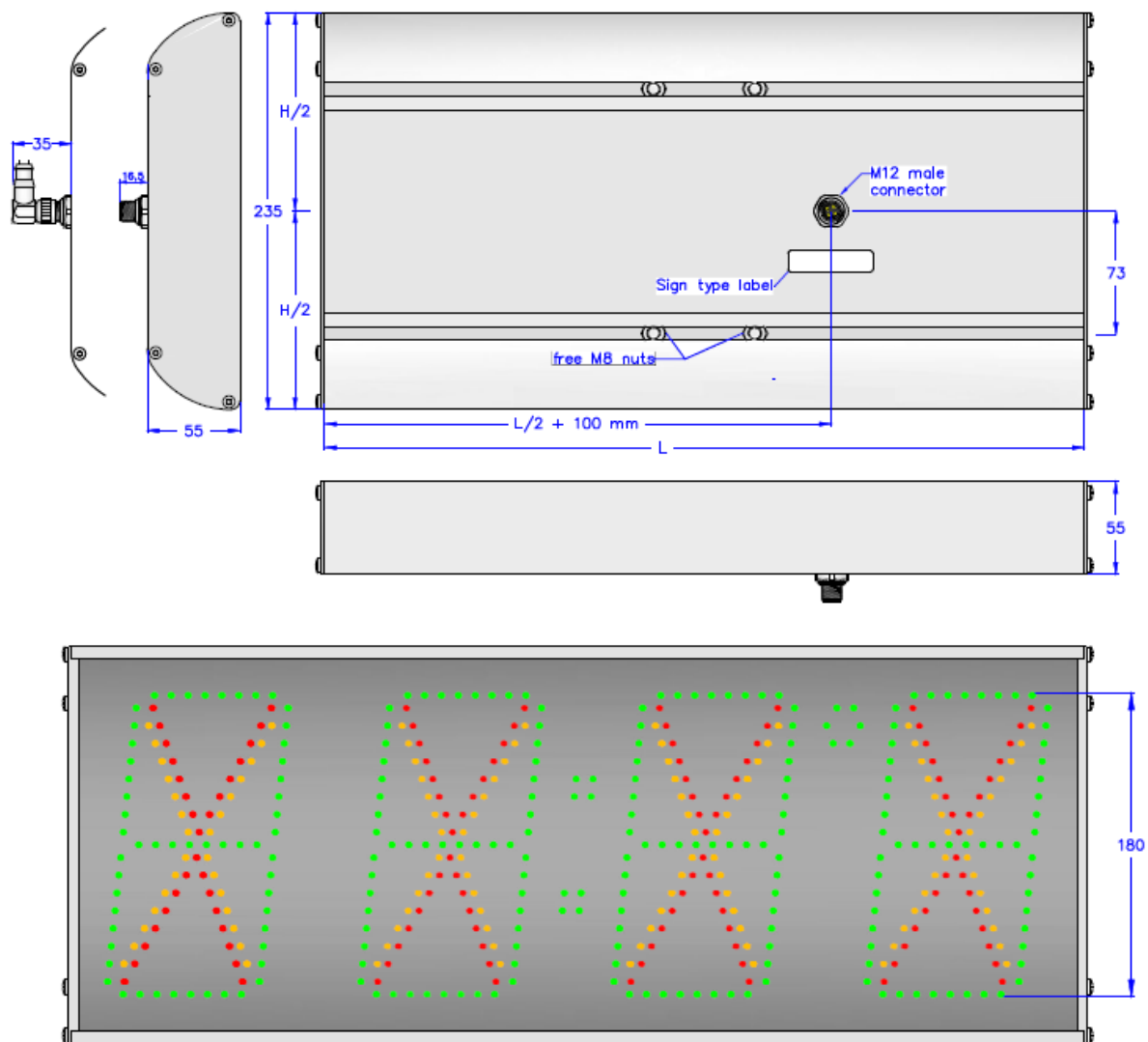
The numeric sign are declined on two sizes (100mm and 180mm height). The 180mm sign is made for the outdoor information and the 100mm one for the indoor information. On this document we going to introduce you the 180mm sign.

For more information about the 100mm height sign please refer to the specific documentation.



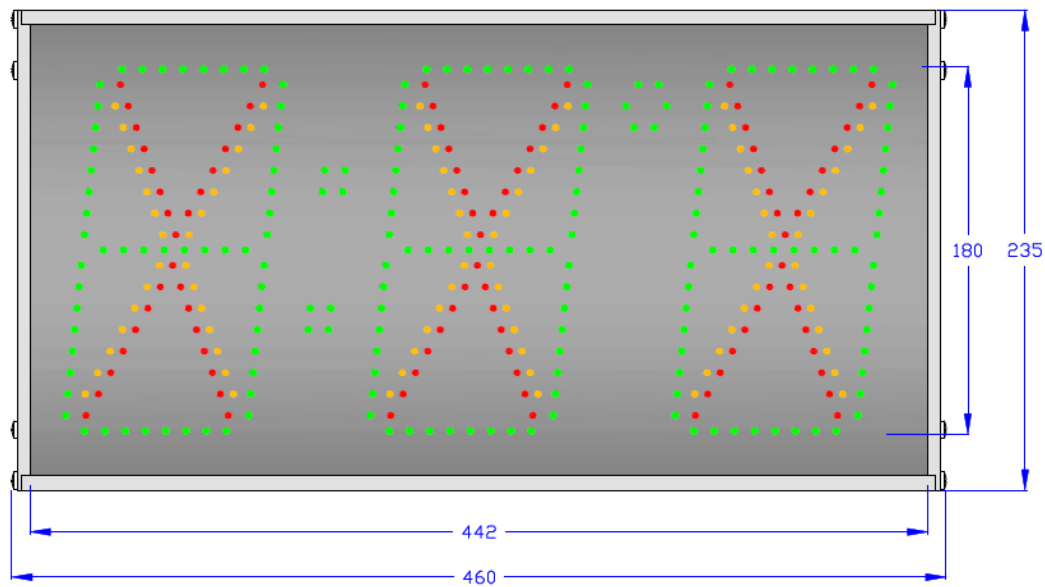
3 DIMENSIONS

Note: the length depends on the display type.

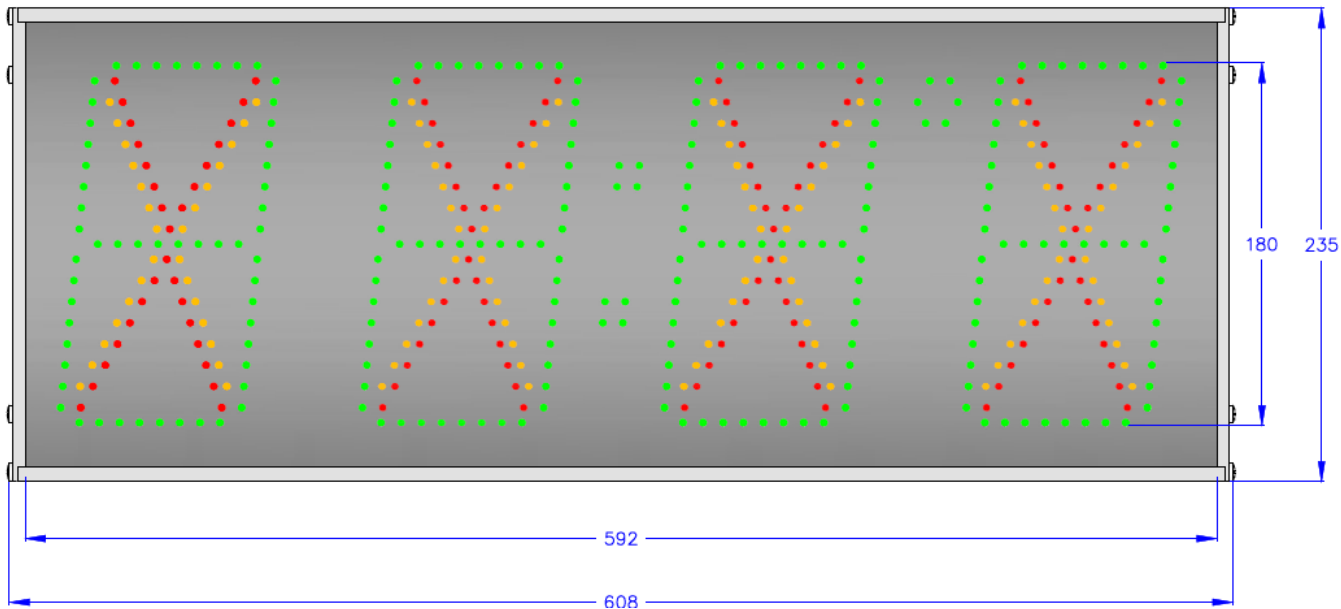


4 NUMERIC TYPES

4.1 3 DIGITS, SP2-630/180

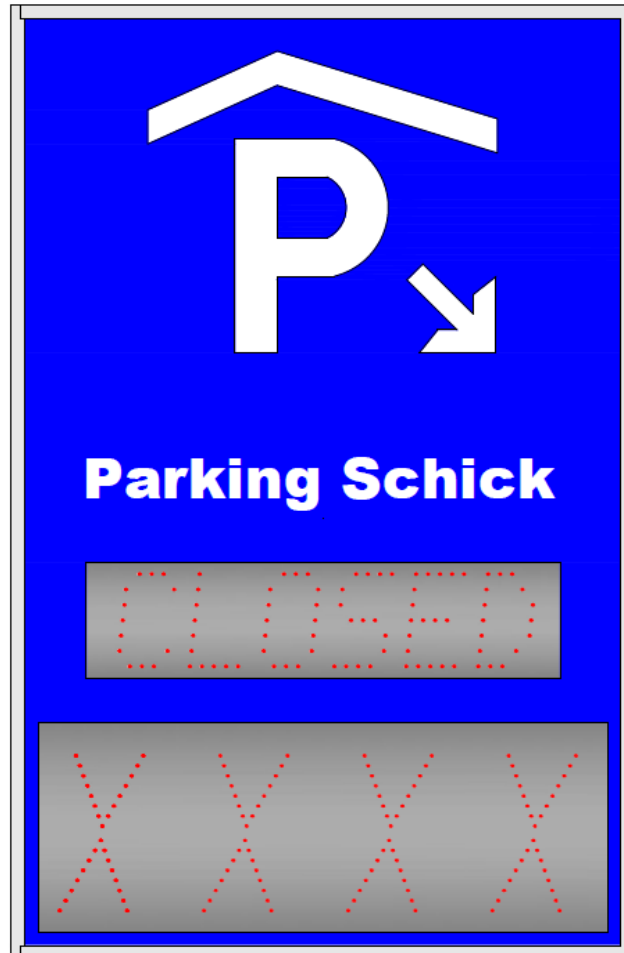


4.2 4 DIGITS, SP2-640/180 (PREFERRED TYPE)



4.3 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 OPTIONS

5.1 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


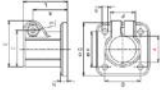

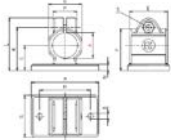

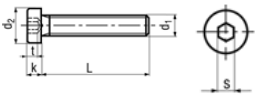

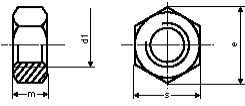

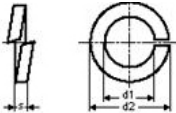

Remark: It's also possible to use a relay card installed inside the computer to drive a third party "VACANT/FULL" sign.

5.2 INPUTS

On request an opto-isolated input is available for forcing the sign to the "FULL" state. This can be used for example to force the main entrance sign to "FULL" when the entrance barrier is blocked to guarantee information integrity

6 ACCESSORIES

6.1 FIXING SYSTEM

LANG CLAMP			
Art.	Diameter		
3840	Ø30mm		
CLAMP BASE			
Art.	Diameter		
3841	Ø30mm		
SOCKET HEAD CAP SCREWS			
Art.	Size		
200330	M8x16		
NUTS			
Art.	Size		
200113	M8		
SPRING LOCK WASHERS			
Art.	Size		
200331	M8		
SAW SET SQUARE			
Art.	Size		
00412	M6		

6.2 CONNECTING

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


7 FEATURES

Character height	180mm
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, <i>ADDRESS,</i> <i>TIME (12H/24H),</i> <i>DATE (DDMM, MMDD, MMY),</i> <i>TEMPERATURE (°C and °F)</i> LUXMETER VOLTMETER USER SEQUENCE
LED synchronization	✓
Internal temperature measurement	✓
Field updatable embedded software	✓
Input/output option	✓

8 ELECTRICAL CONNECTIONS

8.1 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

9 SHORT SPECIFICATIONS

9.1 GENERAL

Size	L?? x H235mm x P55mm (without connectors) <i>Length is depending of the type</i>
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)

9.2 ELECTRICAL

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

9.3 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

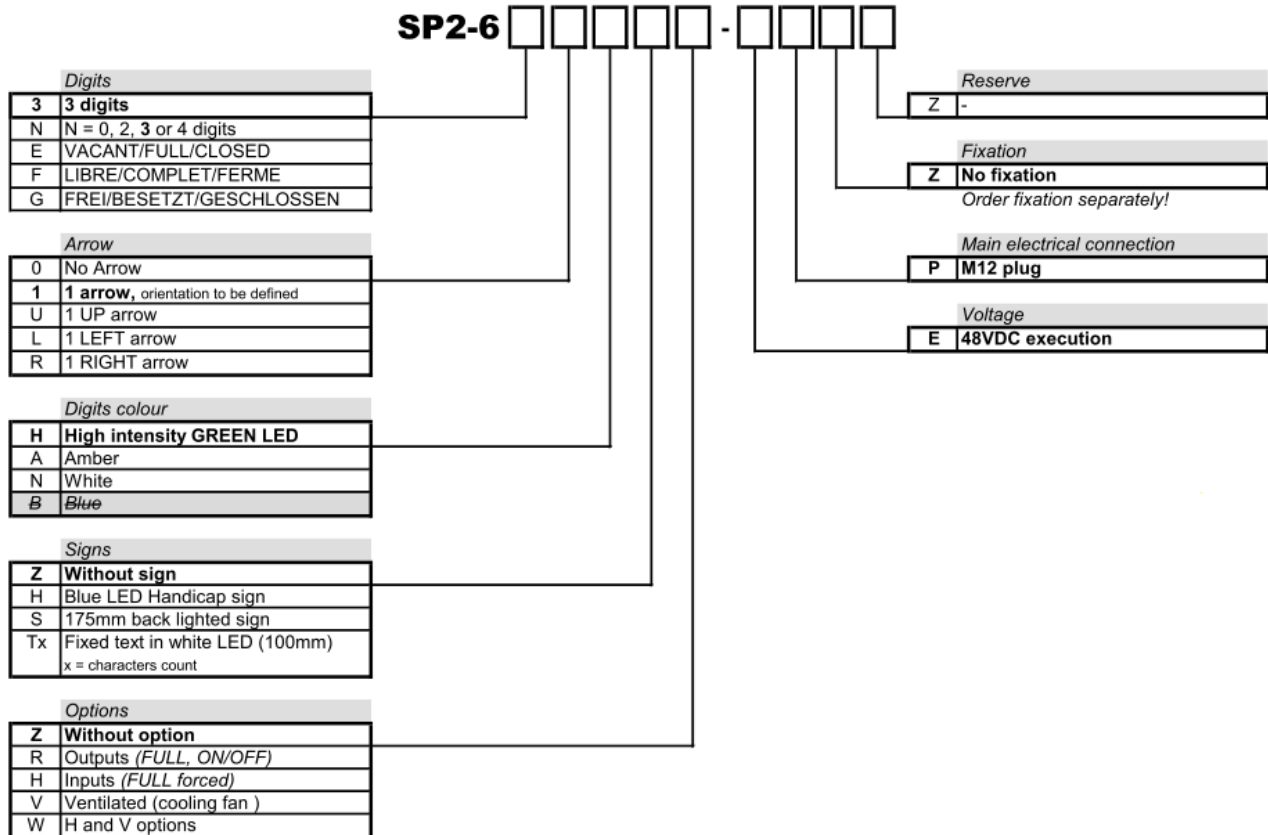
SIGNS

180 mm

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Nomenclature English



TECHNICAL DATA SHEET

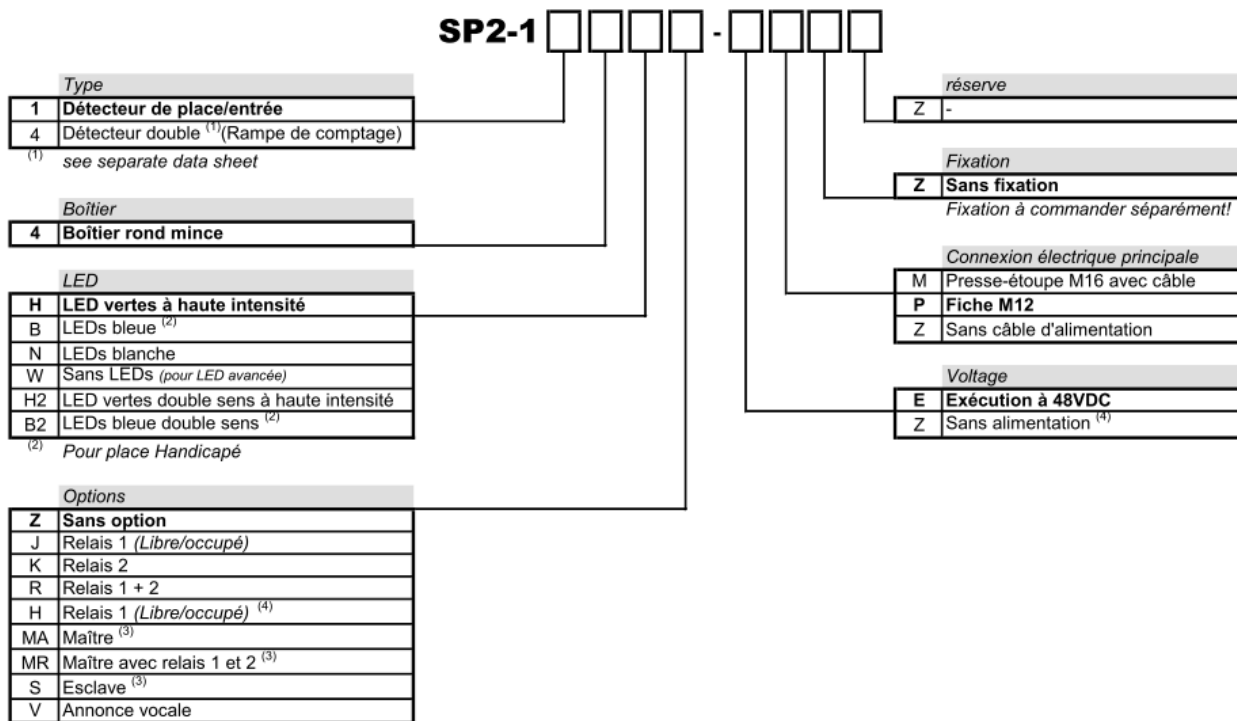
Note:

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.

Nomenclature Français

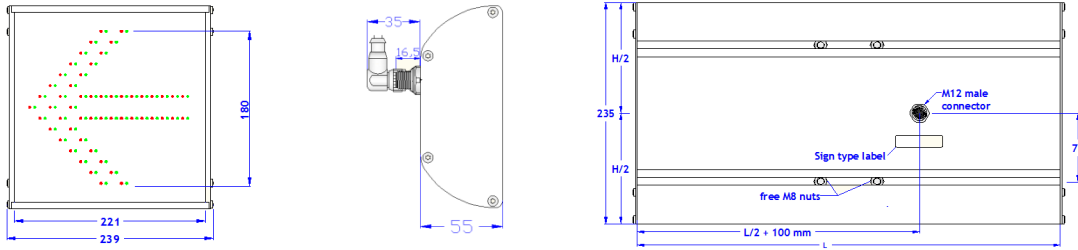


Note:

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

Dynamic Display Enseigne Dynamique



SP2-601 / 180mm


Order N°Article: 3691 / 3691V (cooling fan option)

Technical Specifications / Caracteristiques techniques

Size Taille:	L239mm x H235mm x P55mm (without connectors)
Weight Poids:	0.9Kg
Housing material Boîtier:	Anodized aluminum Lateral cap: ABS, grey RAL7040 Front: PMMA (Plexiglas® XT) <i>UL94-V0 compliant plastics (plastiques conformes)</i>
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 Humidité 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)

TECHNICAL DATA SHEET

Electrical / electricité

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

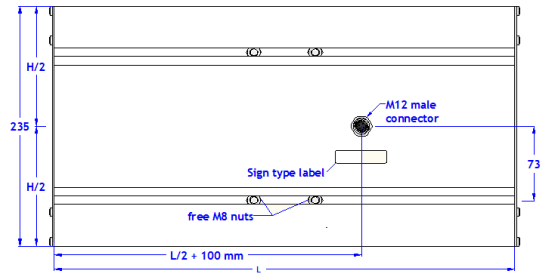
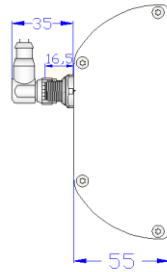
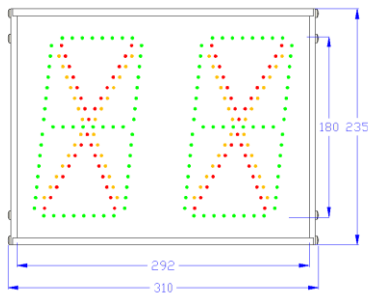
LED display / Affichage LED

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:	180mm
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



SP2-620 / 180mm

Order N°Article: 3692 / 3692V (cooling fan option)

Technical Specifications / Caracteristiques techniques

Size

Taille: L310mm x H235mm 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

Humidité 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 / électricité

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.

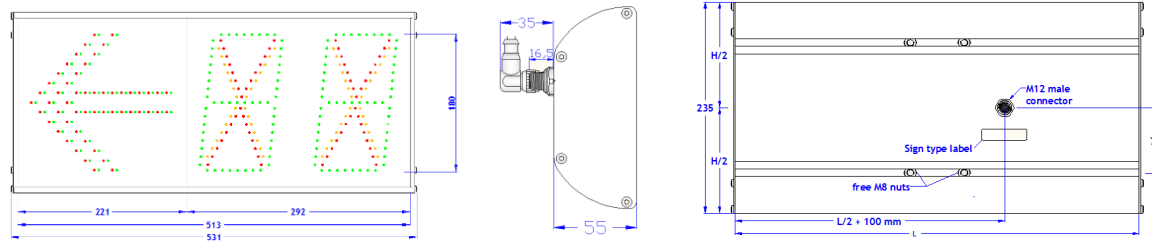
LED display / Affichage LED

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:	180mm
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




SP2-621 / 180mm

Technical Specifications / Caractéristiques techniques

Size Taille:	L531mm x H235mm x P55mm (without connectors)
Weight Poids:	1.3Kg
Housing material Boîtier:	Anodized aluminum Lateral cap: ABS, grey RAL7040 Front: PMMA (Plexiglas® XT) UL94-V0 compliant plastics (plastiques conformes)
Operating temperature range Température de fonctionnement:	-25°C to 55°C (-13°F to +131°F)
Storage temperature range: Plage de température de stockage:	-40°C to 85°C (-40°F to +185°F)
Relative humidity Humidité 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)

TECHNICAL DATA SHEET

Electrical / électricité

Power supply: Alimentation:	48VDC nominal (43.0VDC to 48.5VDC) <i>Note: voltages above 49.0V destroys internal surge protection</i> <i>Note: tensions supérieures à 49.0V détruiront la protection interne.</i>
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 Courant	600mA max.

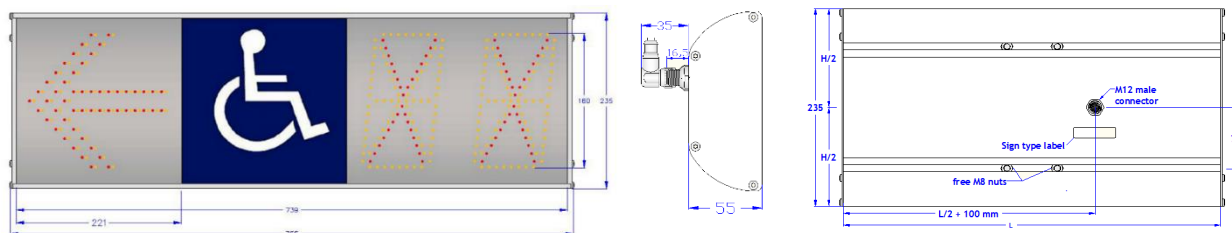
LED display / Affichage LED

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:	180mm
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



SP2-621H / 180mm

Order N°Article: 3698

Technical Specifications / Caracteristiques techniques

Size Taille:	L755mm x H235mm x P55mm (without connectors)
Weight Poids:	2,24Kg
Housing material Boîtier:	Anodized aluminum Lateral cap: ABS, grey RAL7040 Front: PMMA (Plexiglas® XT) UL94-V0 compliant plastics (plastiques conformes)
Operating temperature range Température de fonctionnement:	-25°C to 55°C (-13°F to +131°F)
Storage temperature range: Plage de température de stockage:	-40°C to 85°C (-40°F to +185°F)
Relative humidity Humidité 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)

TECHNICAL DATA SHEET

Electrical / électricité

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.
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Driving current Courant de commande	7mA typ.
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Outputs (options) / Sorties (options)

Insulation Isolation	3KV max.
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Voltage Tension	48Vdc / 30Vac max.
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Current Courant	600mA max.
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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:	180mm
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Display type Type d'affichage:	7 segments
-----------------------------------	------------

LED's per segment LED's par segment:	7 to 9
---	--------

Red crosses Croix rouge	Yes / Oui
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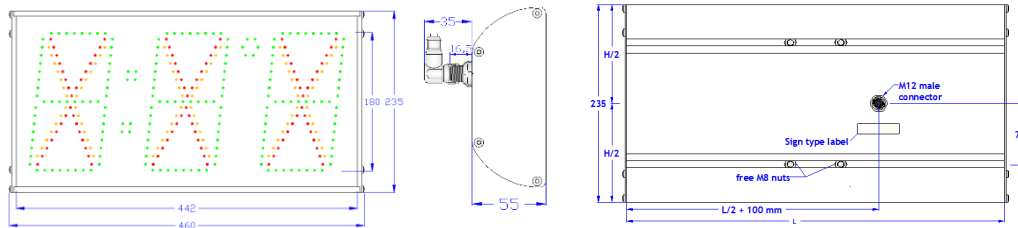
Amber crosses Croix ambrée	Yes / Oui
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Viewing angle (half intensity): Angle de vue (semi- intensité)	30°
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Viewing angle Angle de vue	180°
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Viewing distance Distance lisible	60m
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Dynamic Display Enseigne Dynamique



SP2-630 / 180mm

Order N°Article: 3693 / 3693V (cooling fan option)

Technical Specifications / Caracteristiques techniques

Size

Taille: L460mm x H235mm x P55mm (without connectors)

Weight

Poids: 2,24Kg

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

Humidité 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 Courrant	600mA max.
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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:	180mm
---	-------

Display type Type d'affichage:	7 segments
-----------------------------------	------------

LED's per segment LED's par segment:	7 to 9
---	--------

Red crosses Croix rouge	Yes / Oui
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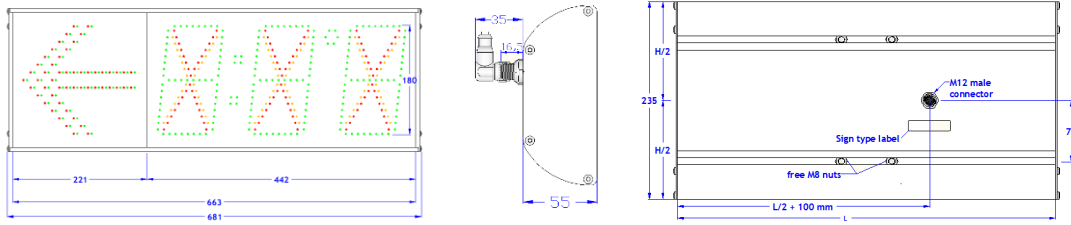
Amber crosses Croix ambrée	Yes / Oui
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Viewing angle (half intensity): Angle de vue (semi- intensité)	30°
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Viewing angle Angle de vue	180°
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Viewing distance Distance lisible	60m
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Dynamic Display Enseigne Dynamique



SP2-631 / 180mm


Order N°Article: 3695 / 3695V (cooling fan option)

Technical Specifications / Caracteristiques techniques

Size Taille:	L681mm x H235mm x P55mm (without connectors)
Weight Poids:	2.70Kg
Housing material Boîtier:	Anodized aluminum Lateral cap: ABS, grey RAL7040 Front: PMMA (Plexiglas® XT) <i>UL94-V0 compliant plastics (plastiques conformes)</i>
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 Humidité 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)

TECHNICAL DATA SHEET

Electrical / electricité

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

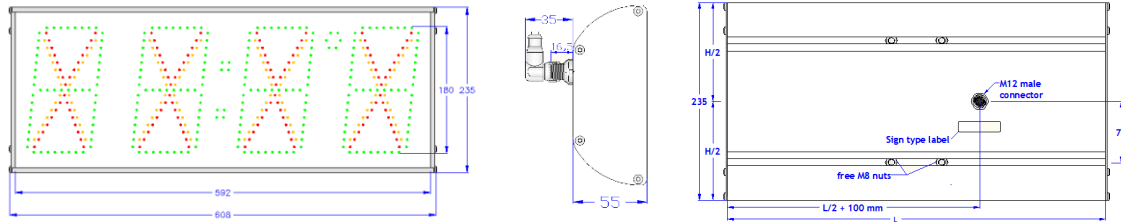
LED display / Affichage LED

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Character height Hauteur des caractères:	180mm
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



SP2-640 / 180mm

Order N°Article: 3694 / 3694V (cooling fan option)

Technical Specifications / Caracteristiques techniques

Size

Taille: L610mm x H235mm x P55mm (without connectors)

Weight

Poids: 2.70Kg

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

Humidité 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.
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Driving current Courant de commande	7mA typ.
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Outputs (options) / Sorties (options)

Insulation Isolation	3KV max.
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Voltage Tension	48Vdc / 30Vac max.
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Current Courant	600mA max.
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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:	180mm
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Display type Type d'affichage:	7 segments
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LED's per segment LED's par segment:	7 to 9
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Red crosses Croix rouge	Yes / Oui
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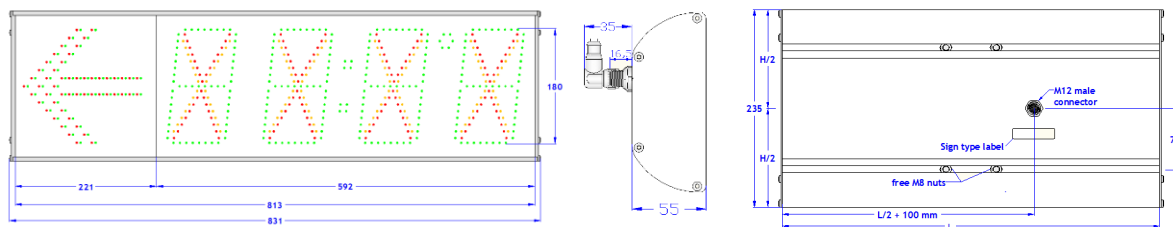
Amber crosses Croix ambrée	Yes / Oui
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Viewing angle (half intensity): Angle de vue (semi- intensité)	30°
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Viewing angle Angle de vue	180°
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Viewing distance Distance lisible	60m
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Dynamic Display Enseigne Dynamique



SP2-641 / 180mm

Order N°Article: 3696 / 3696V (cooling fan option)

Technical Specifications / Caracteristiques techniques

Size

Taille: L610mm x H235mm x P55mm (without connectors)

Weight

Poids: 3Kg

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

Humidité 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.
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Driving current Courant de commande	7mA typ.
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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:	180mm
---	-------

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
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Viewing angle (half intensity): Angle de vue (semi- intensité)	30°
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Viewing angle Angle de vue	180°
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Viewing distance Distance lisible	60m
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