

PRODUCT CATALOGUE



AIR CHANNELS **DESIGN**

LIGHTING PROJECT R&D

AUTOMOTIVE

EXTERIOR **ELECTRONICS**

INTERIOR **MANUFACTURING**

TRAILER LIGHTING

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ELECTRONICS

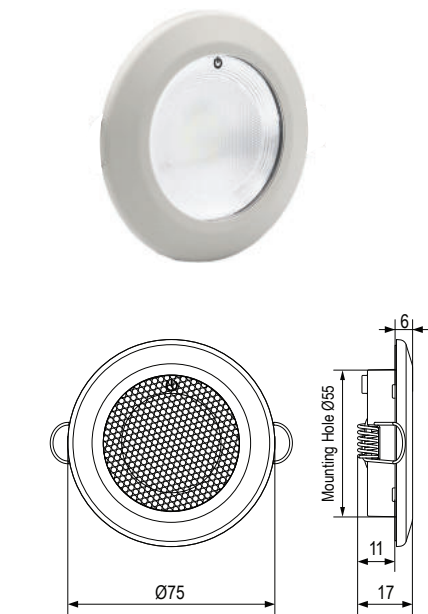
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INTERIOR LAMPS



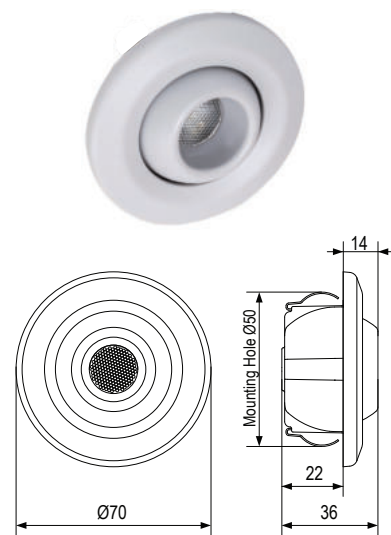
SS

- Light
- Dim
- Touch
- Sensor
- Remote

Technical specifications for SS series:

- Operating Voltage: 12V or 24V
- Power Consumption: 2W
- Luminous Flux: 165 Lumen
- LED/CCT: 6500 K
- Operating Temperature: -40 °C to +85 °C
- LED COLOR OPTIONS

PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SSPE12WB-CG	3 032 0021	12V - Blue Night LED - Circle Form - Grey Body
SSPE24WB-CG	3 032 0020	24V - Blue Night LED - Circle Form - Grey Body
SSPEB12WB-CG	3 032 0019	12V - Blue Night LED - Circle Form - Grey Body - Button
SSPEB24WB-CG	3 032 0018	24V - Blue Night LED - Circle Form - Grey Body - Button



SSM SERIES

*Scan for more info



- Modular design spot reading lamp
- One axis moving head
- Recessed mount
- Optional button
- Touch sensor area all around the
- Soft start & soft stop light effect
- Various body colors

Technical specifications for SSM series:

- LED
- EMC Approved
- Registered Design
- Touch Button
- LED COLOR OPTIONS
- Operating Voltage: 12V or 24V
- Power Consumption: 1W
- Luminous Flux: 60 Lumen
- LED/CCT: 6500 K
- Operating Temperature: -40 °C to +85 °C

PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SSM12WB	3 075 0008	12V - White LED - Touch Button
SSM24WB	3 075 0001	24V - White LED - Touch Button
SSM12W	3 075 0004	12V - White LED
SSM24W	3 075 0002	12V - White LED

INTERIOR LAMPS



SSPD SERIES

*Scan the QR code for more information.



- Low cost led spot lamp
- Low consumption
- Small size for narrow areas
- Recessed mount



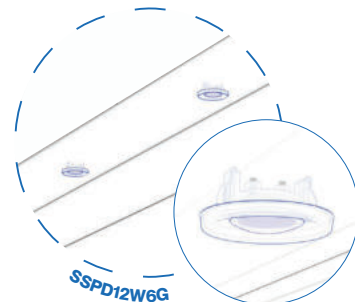
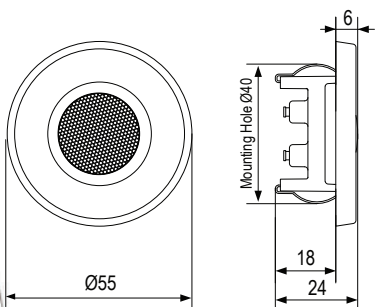
Operating Voltage
12V or 24V

Power Consumption
1.5W

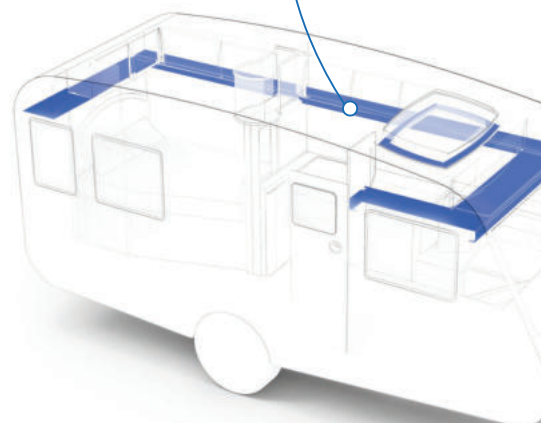
Luminous Flux
125 Lumen

LED/CCT
6500 K

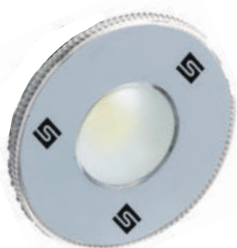
Operating Temperature
-40 °C to +85 °C



SSPD12W6G



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SSPD12W6G	3 032 0001	Clips - 12V - White LED
SSPD24W6G	3 032 0005	Clips - 24V - White LED



SSPC SERIES

*Scan the QR code for more information.



- Special optic lens for high intensity
- Customised logo area
- High power lamp design with Al cooler
- Tested for ambulance stretcher lighting
- Optional economic version (3 Watt)



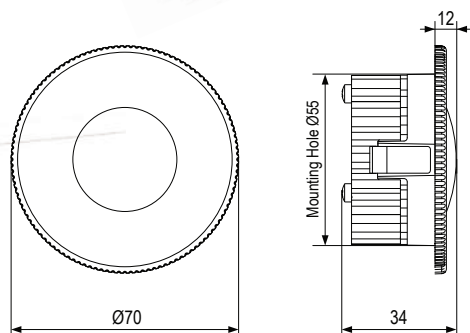
Operating Voltage
10-30V

Power Consumption
5W

Luminous Flux
465 Lumen

LED/CCT
6500 K

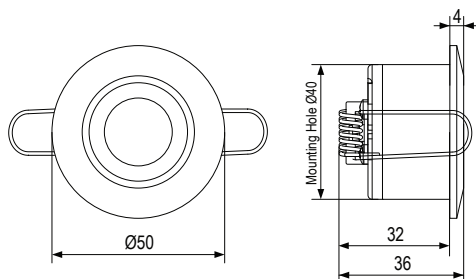
Operating Temperature
-40 °C to +85 °C



SSPCW10C



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SSPCW10C	3 031 0001	White - 10 LED
SSPCWW10C	3 031 0005	Warm White - 10 LED

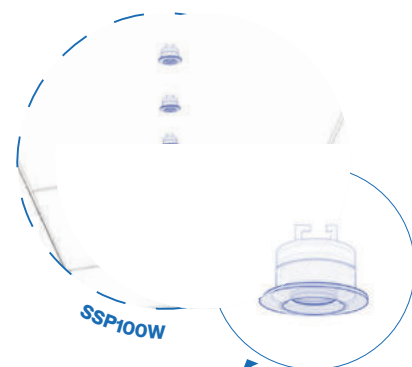


SSP100 SERIES

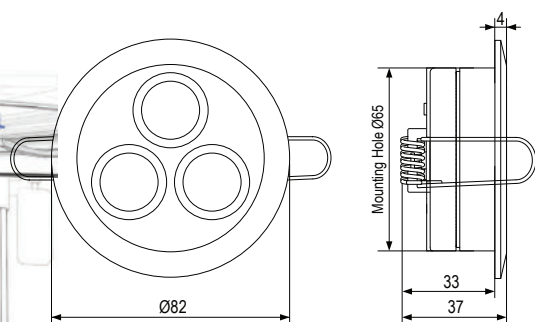
"Scan the QR code for more information."



- Low consumption small size
- Elegance look with cnc built aluminum body
- Special lens with narrow angle



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SSP100W	3 029 0001	White - 1 LED
SSP100WW	3 029 0007	Warm White - 1 LED

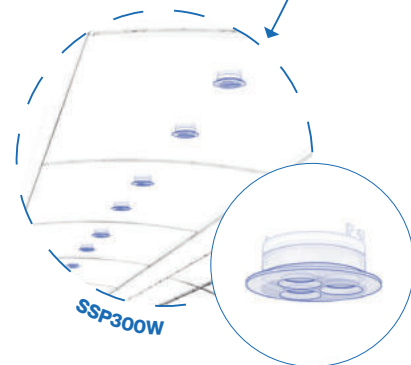
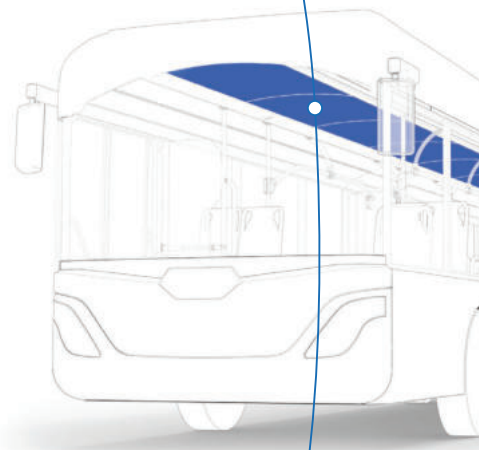


SSP300 SERIES

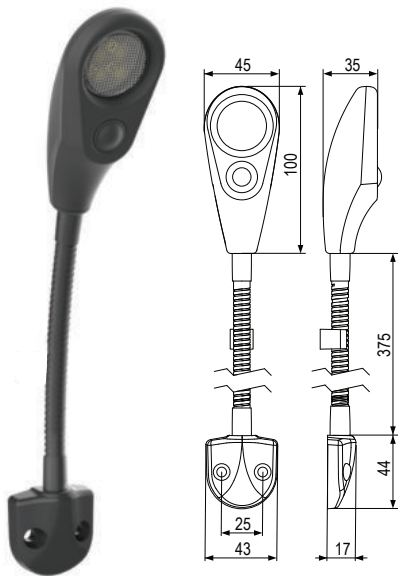
"Scan the QR code for more information."



- High power
- Elegance look with cnc built aluminum body
- Special lens with narrow angle



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SSP300W	3 030 0001	White - 3 LED
SSP300WW	3 030 0011	Warm White - 3 LED

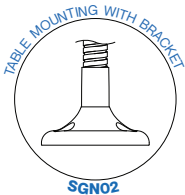


SGN SERIES

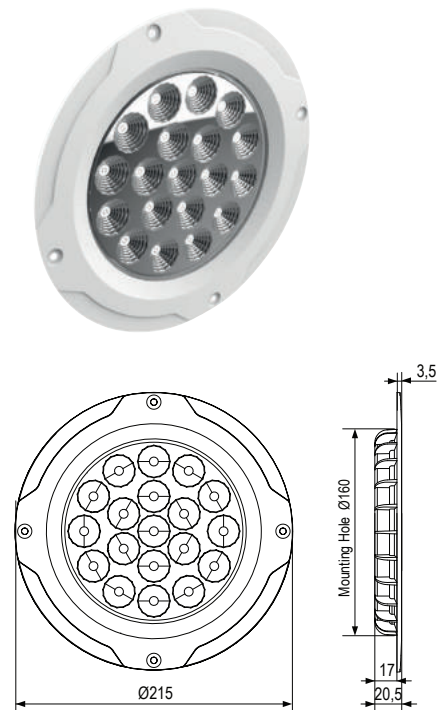
"Scan the QR code for more information."



- Reading led lamp with flexible hose; optional hose lengths
- On-Off Button
- For sleeping areas; trucks caravans and buses



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SGN01	3 064 0001	White LED - Surface Mounting Bracket - Long Type (375 mm)
SGN02	3 064 0009	White LED - Table Mounting Bracket - Short Type (200 mm)

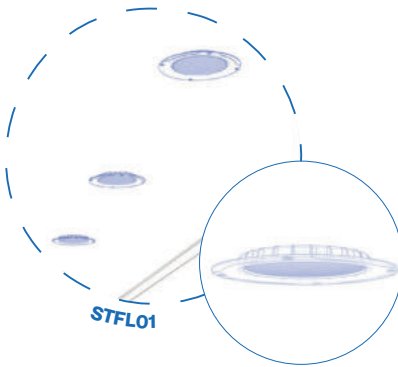


STFL SERIES

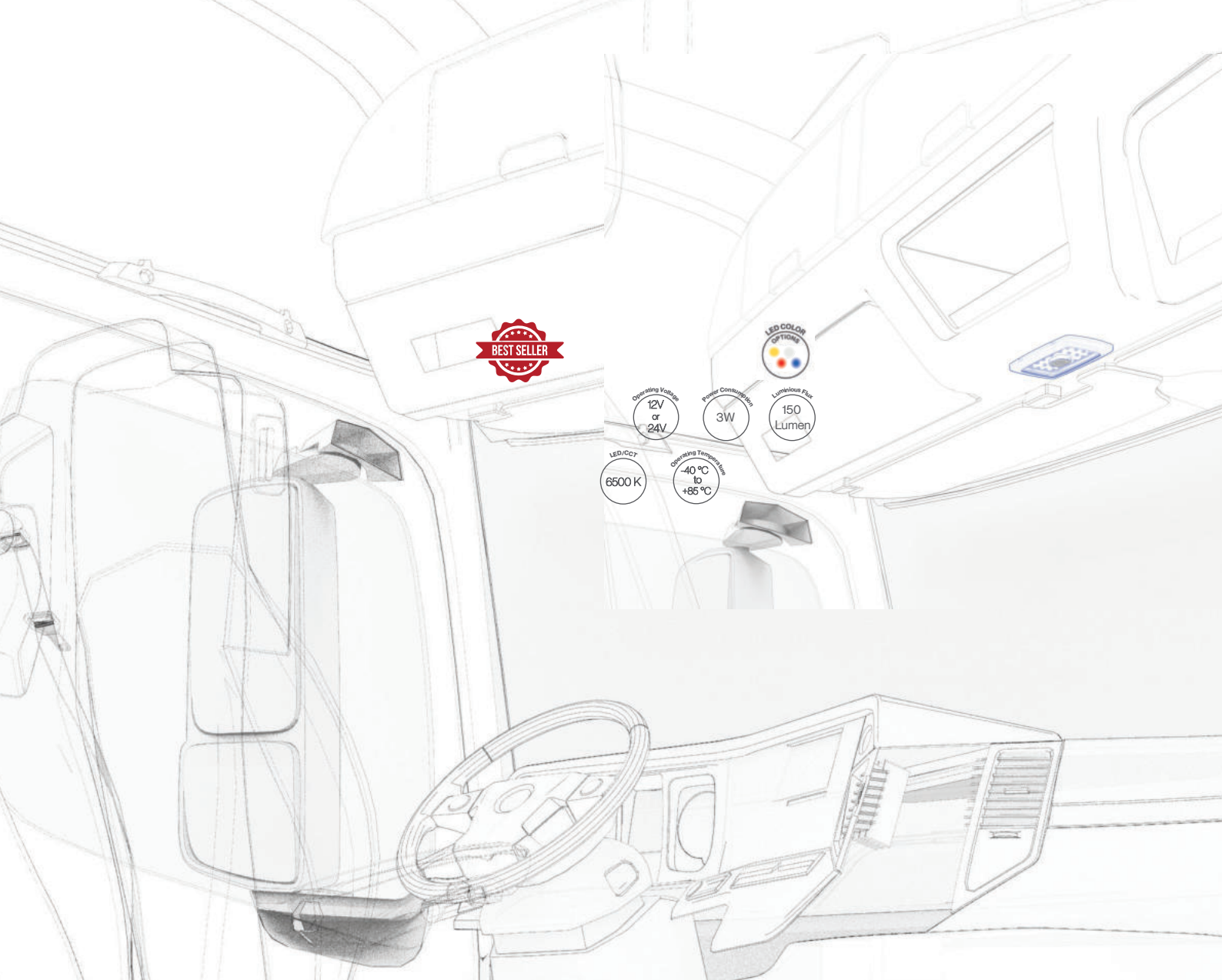
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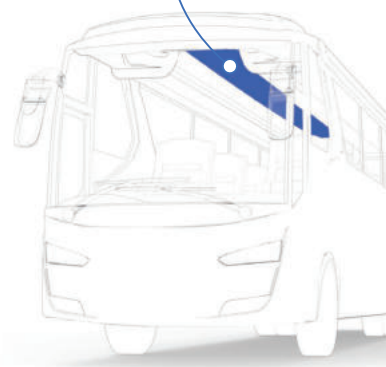
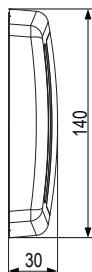
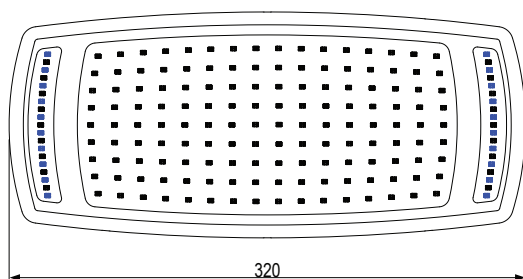
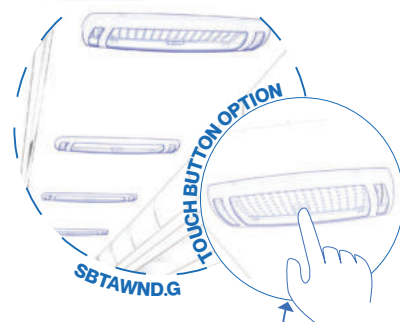
- Frigo Lighting
- Low profile surface mount and recessed options



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
STFL01	3 087 0001	Frigo Lighting - 19 LED



- FEATURES
- Dim, Night, Full, Off Mode
 - Optional touch button



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SBTAWND.GB	3 061 0007	White LED – Blue Night LED – Dim Mode - Grey Body - With Button
SBTAWND.G	3 061 0006	White LED – Blue Night LED – Dim Mode - Grey Body - Without Button

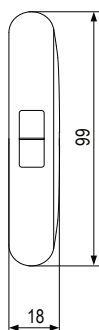
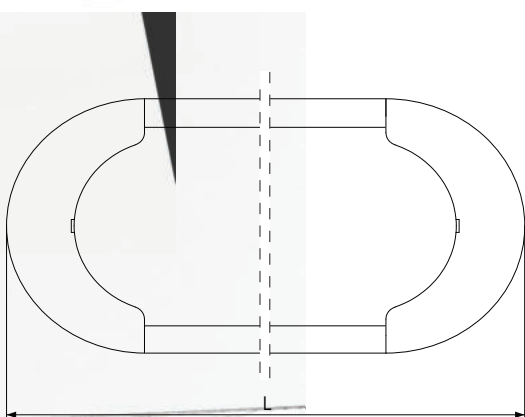


SPN SERIES

"Scan the QR code for more information."



- Interior continuous led lamp
- Best seller curved design
- Available from 30 cm to 6mt
- Dim, night, full, off mode
- Optional button



PRODUCT DESCRIPTION

60 LED - 351mm - White LED, Blue Night LED

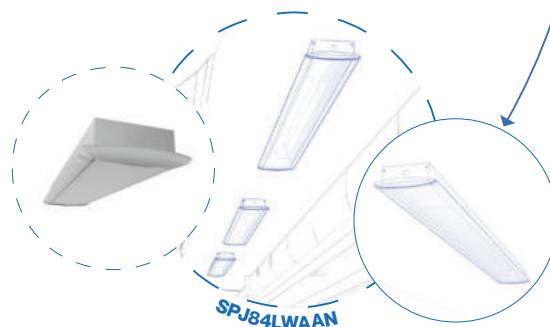
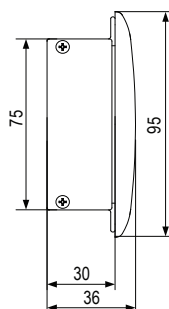
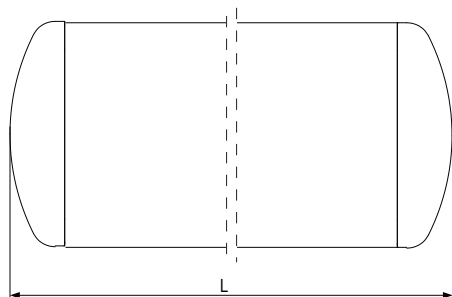
144 LED - 685mm - White LED, Blue Night LED - Button

SPJ SERIES

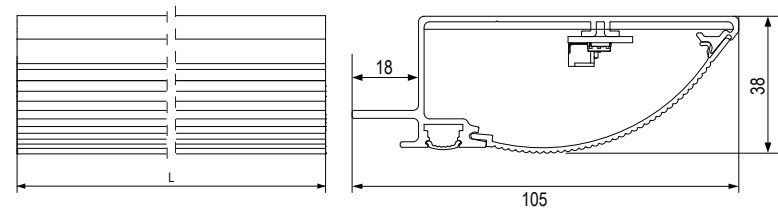
"Scan the QR code for more information."



- Recessed mount, slim thickness (9mm)
- Available from 30cm to 6mt
- Dim, night, full off mode
- Various led strip with different power



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SPJ84LWAAN	3 016 0813	84 LED - 350mm - White LED, Blue Night LED

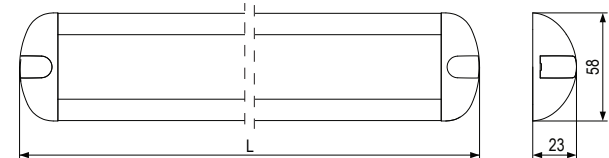
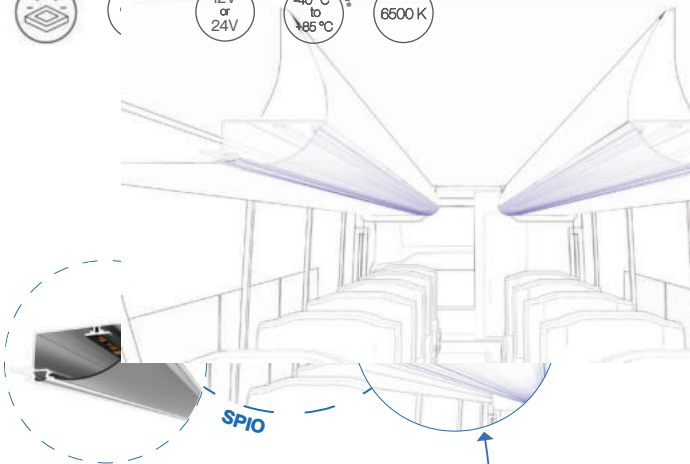


SP10 SERIES

"Scan the QR code for more information."



- Interior continuous led lamp,
- Perfect fit for corner sides of ceiling
- Available from 30cm to 6mt
- Dim, night, full, off mode
- Various led strip with different power

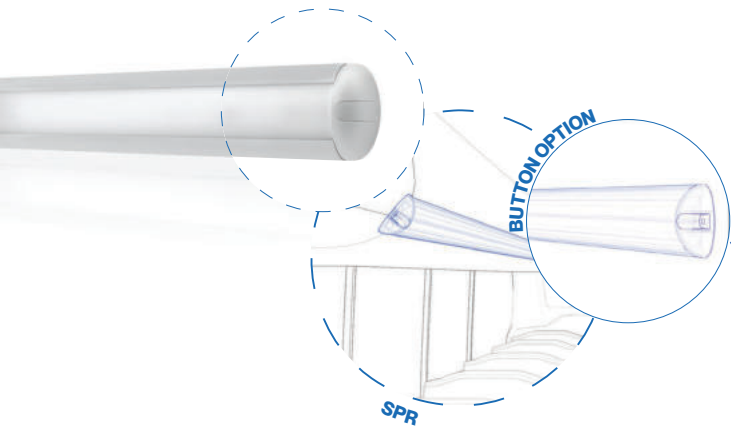
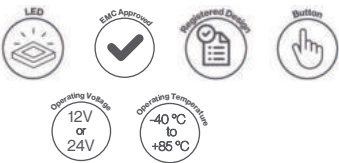


SPR SERIES

"Scan the QR code for more information."



- Curved design led interior lamp
- Co-extrusion PC lens
- Length from 30cm to 6mt
- Dim, night, full, off mode
- Optional button
- Surface mount
- Various led strip assembly possibility



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SPR12W6	3 016 0375	12V - 6 Power LED - 3W - Ceiling Lighting
SPR12W06B	3 016 0855	12V - 6 White LEDs

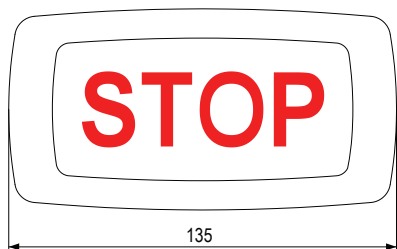
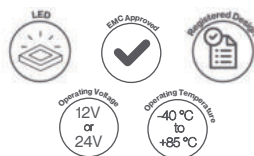


SDIA SERIES

"Scan the QR code for more information."



- Indicator sign unit with led backlight
- Customised text upon request
- Slim design, surface mount



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SDIAR12	3 012 0003	12V SDIA Red Stop Indicator
SDIAR24	3 012 0001	24V SDIA Red Stop Indicator

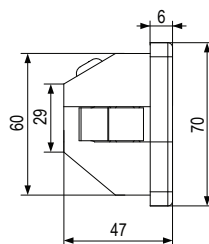


SDI SERIES

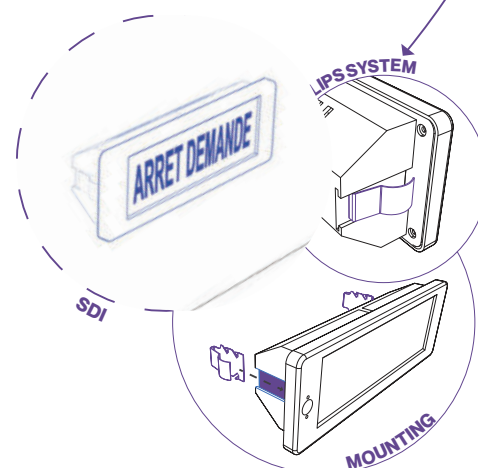
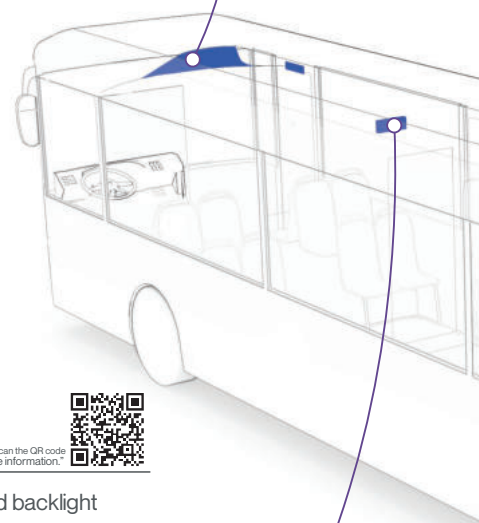
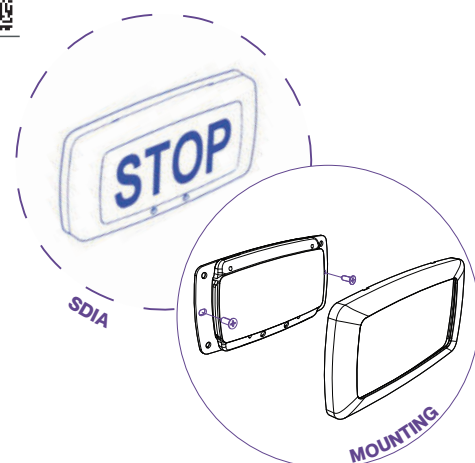
"Scan the QR code for more information."



- Indicator sign unit with led backlight
- Customised text upon request
- Recessed mount



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SDI769	3 012 0016	12V Stop Indicator
SDI757	3 012 0010	24V Stop Indicator



INTERIOR INFORMATION DISPLAYS / INDICATORS

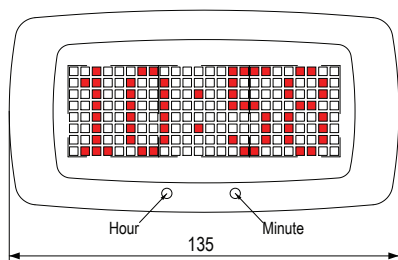


SDSA SERIES

"Scan the QR code for more information."

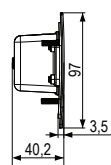
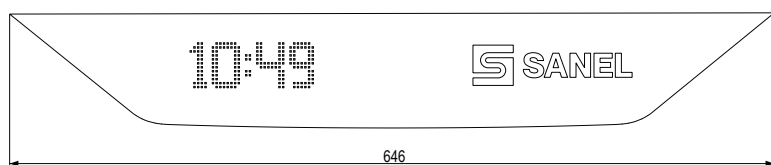


- Dot matrix digital clock
- External / internal temperature display
- 4 different sliding text animation
- Slim design, surface mount



SDSA

PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SDSAR006	3 006 0077	°C Digital Clock (Red Dotmatrix) TR Language
SDSAR010	3 006 0078	°C Digital Clock (Red Dotmatrix) TR Language
SDSAR202	3 006 0081	°C Digital Clock (Red Dotmatrix) TR Language

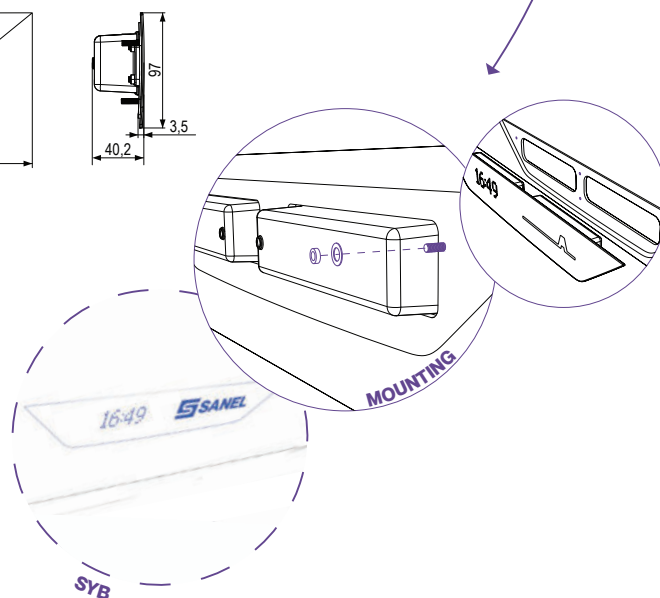


SYB SERIES

"Scan the QR code for more information."



- 12×60 resolution dot matrix digital clock
- RGB leds with various colors
- CANBUS communication
- Programmable sliding text animation
- Custom design logo or text with led backlight
- Custom design outside shape upon request
- Extra slim design, recessed mount



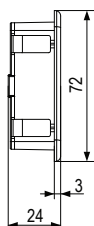
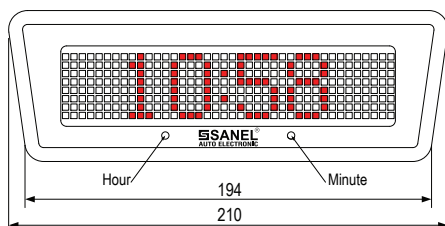
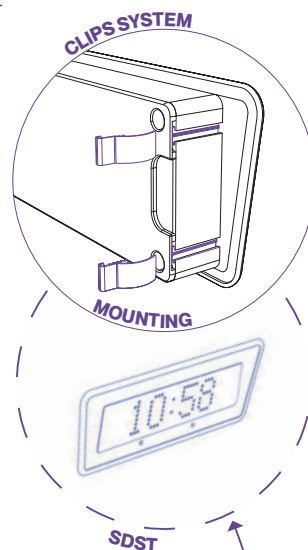


SDST SERIES

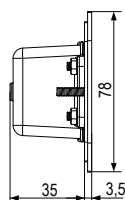
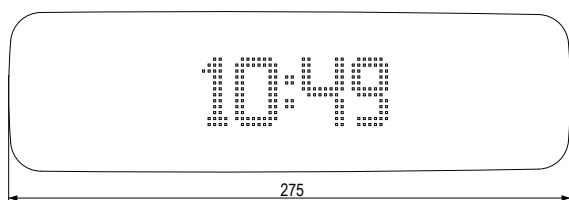
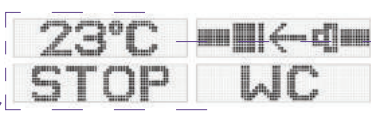
"Scan the QR code for more information."



- Dot matrix digital clock
- External / internal temperature display
- CANBUS communication
- 4 different programmable sliding text animation
- Custom design logo upon request
- Recessed mount



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SDSTRK0237	3 006 0023	Sliding Text Clock

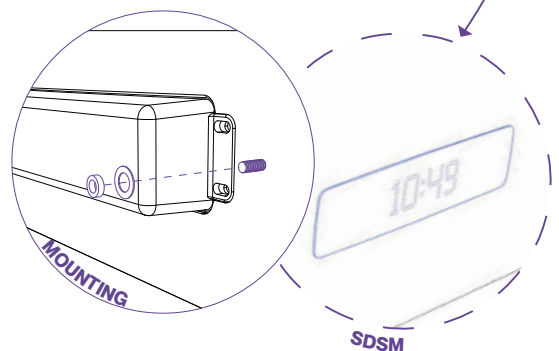


SDSM SERIES

"Scan the QR code for more information."



- 12×60 resolution dot matrix digital clock
- RGB leds with various colors
- CANBUS communication
- Programmable sliding text animation
- Custom design outside shape upon request
- Extra slim design, recessed mount



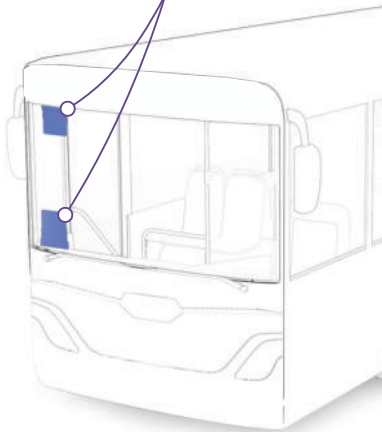
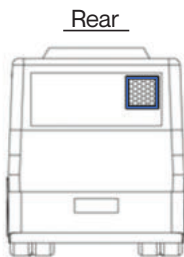
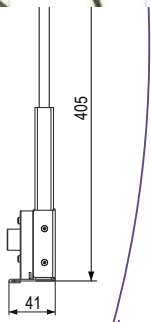
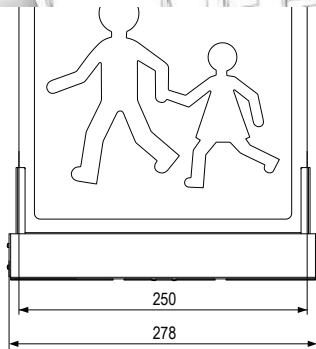
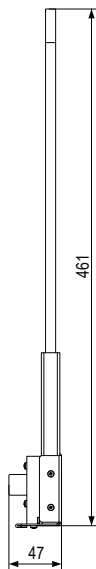
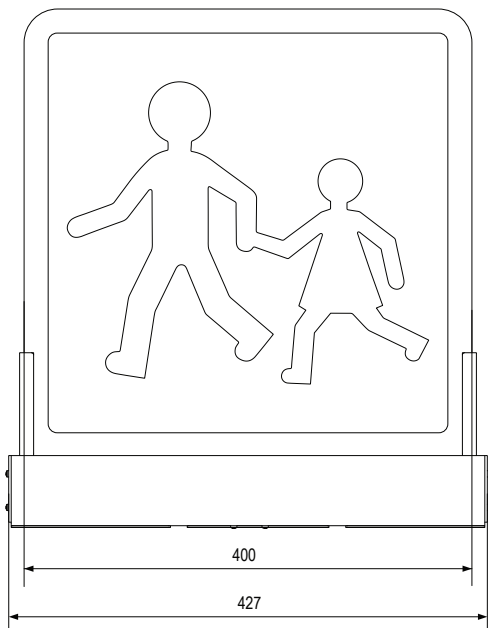
PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SDSM01	3 006 0140	RGB Info Display



SPG SERIES



- School bus sign with blinking leds
- 250 x 250 mm / 400 x 400 mm version
- E approved retro reflector
- Metal bracket with lock and key
- Optional bracket versions

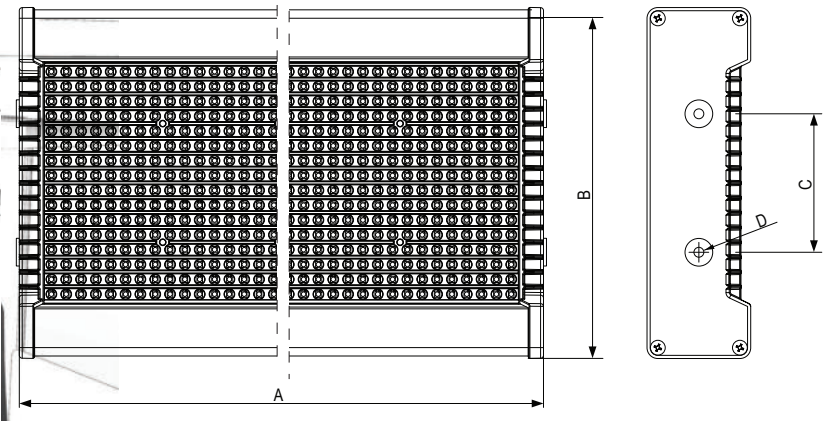
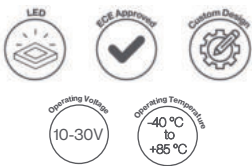


PRODUCT CODE	PRODUCT CODE	PRODUCT DESCRIPTION
SPG127B	3 020 0052	School Vehicle Stop Warning Panel (Small 25x25)
SPG127B	3 020 0065	School Vehicle Stop Warning Panel (Small 25x25)
SPG129A	3 020 0032	School Vehicle Stop Warning Panel (Big 40x40 cm)
SPG129B	3 020 0011	School Vehicle Stop Warning Panel (Small 25x25 cm)

INTERIOR DESTINATION DISPLAYS

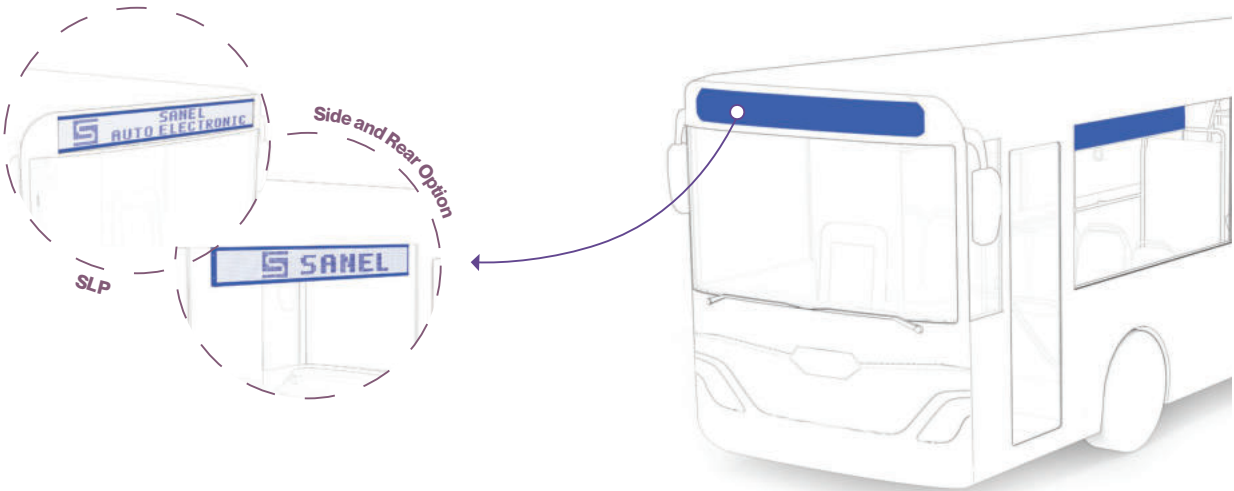
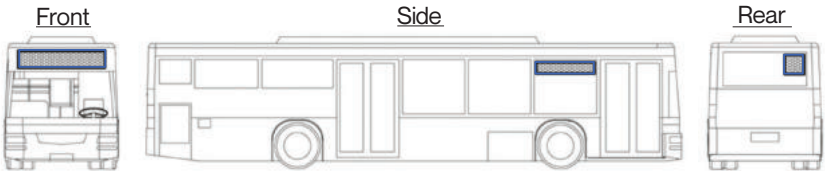
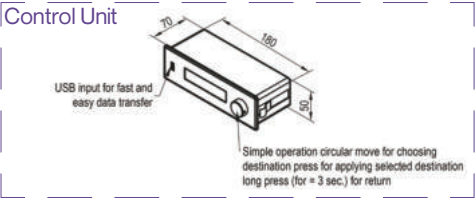


SLP SERIES



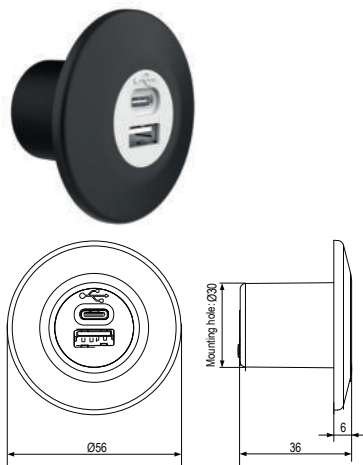
Product Code	LED Center Distance	A (mm)	B (mm)	C (mm)	D
SLP08 - 16 x 32	- 8mm	266	175	70	M6
SLP08 - 16 x 64		506			
SLP08 - 16 x 96		746			
SLP10 - 16 x 32	- 10mm	351	218	150	M8
SLP10 - 16 x 64		677			
SLP10 - 16 x 96		1002			
SLP10 - 16 x 112		1165			
SLP13 - 16 x 32	- 13mm	449	268	150	M8
SLP13 - 16 x 64		872			
SLP13 - 16 x 96		1294			
SLP13 - 16 x 112		1506			
SLP13 - 16 x 128		1717			

Control Unit



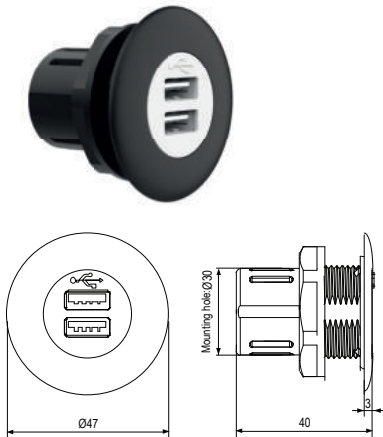
SUC2AC SERIES

"Scan the QR code for more information."



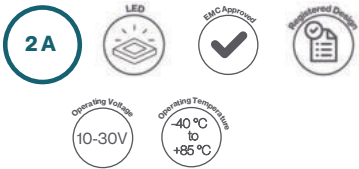
SUC11 SERIES

"Scan the QR code for more information."

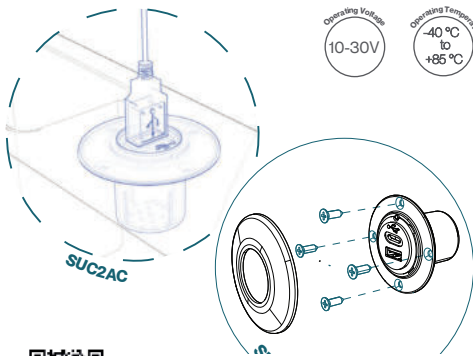


SUC SERIES

- 1 x USB Type C
- 1 x USB Type A output, Total 2A
- 2 x USB Type A outputs, Total 2A
- Recessed mount USB charger
- Various color led back light
- Plastic Body
- Over temperature protection
- Reverse voltage protection
- Output short circuit protection
- Over voltage protection
- Fuse protection
- LED and body color options



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SUC2AC-B	3 044 0190	2A Outputs - Blue LED
SUC2AC-G	3 044 0191	2A Outputs - Green LED
SUC2AC-W	3 044 0192	2A Outputs - White LED
SUC11	3 044 0132	2A Outputs - White LED

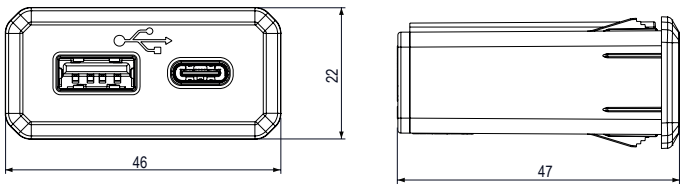


SFUC01

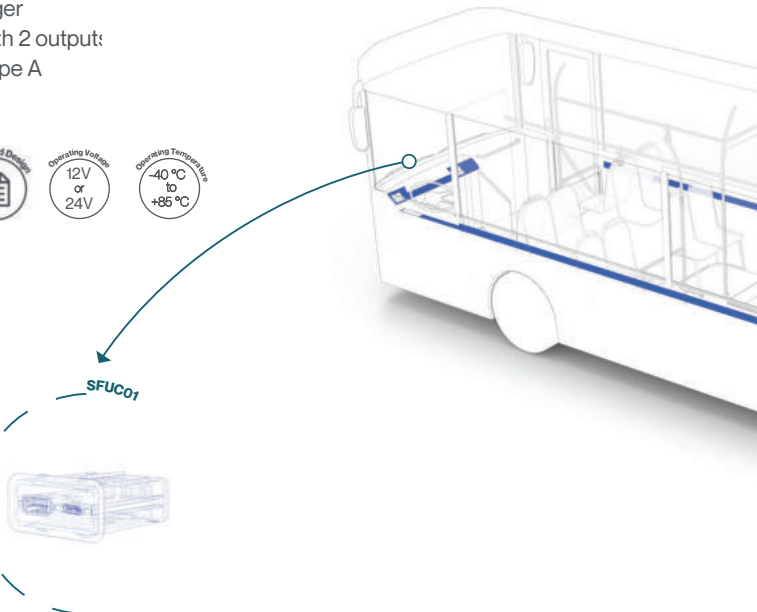
"Scan the QR code for more information."



- Recessed mount USB charger
- High power USB charger with 2 output:
- 1x USB Type C + 1 x USB Type A
- Total 4 Amp



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SFUC01	3 044 0244	12/24V 4A USB Charger



SCREW MOUNTING

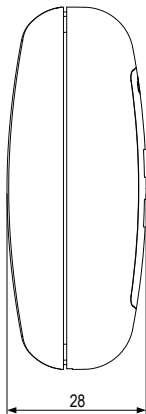
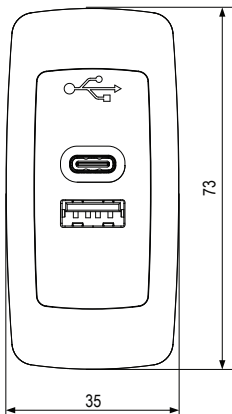
INTERIOR USB CHARGERS

SUC15 SERIES

"Scan the QR code for more information."



POLE MOUNT



SUC16 SERIES

"Scan the QR code for more information."

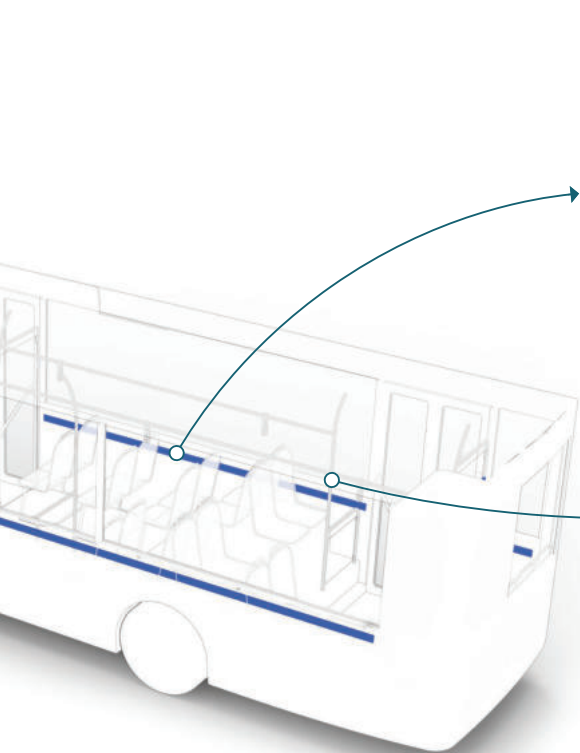
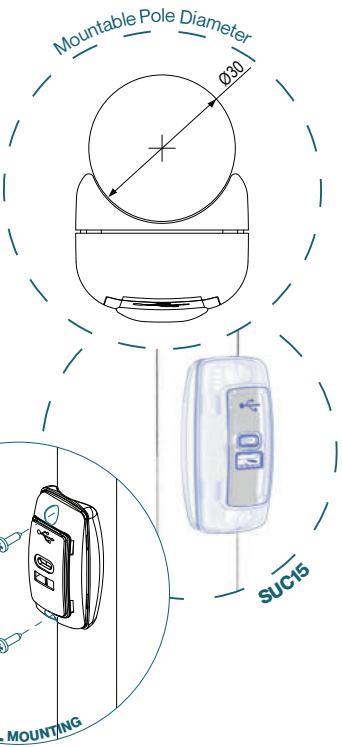


SURFACE MOUNT

SUC SERIES

• USB Type A + Type C

- High power USB charger
- Various colors led back light
- 2 x 2A



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SUC15B	3 044 0194	USB Charger (Handrail Type)
SUC16B	3 044 0193	USB Charger (Flat Surface Type)

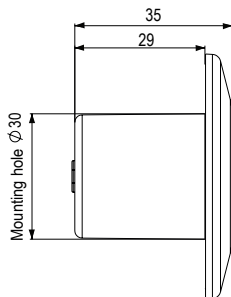
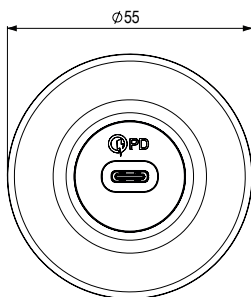


SPD01 One Port



• 1 x 18W PD Charger Type C

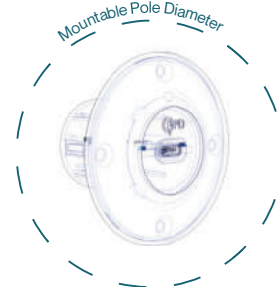
• 5V - 3A, 9V - 2A



SUC PD SERIES

- PD 3.0, QC 3.0, Fast Charge Standards
- 10 - 30V Wide Operating Voltage Range
- Programmable Output Voltage
- Short Circuit Protection
- Thermal Protection
- Power Delivery (PD 3.0 / 2.0 / PPS)
- USB Type-C V2.0
- QC (Quick Charge) 3.0
- Huawei FCP Standards
- BC 1.2 (Battery Charging)
- 3A Divider Mode
- 1.2V/1.2V Mode

Power Delivery

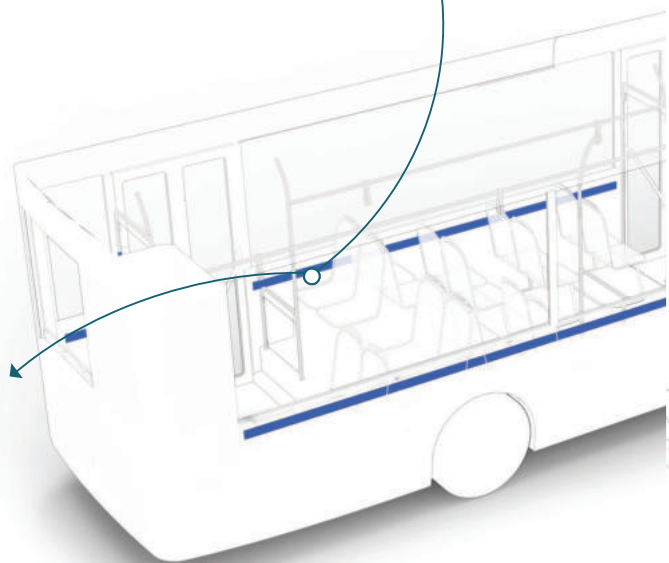
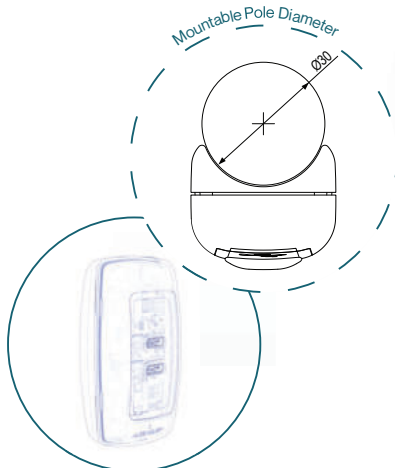
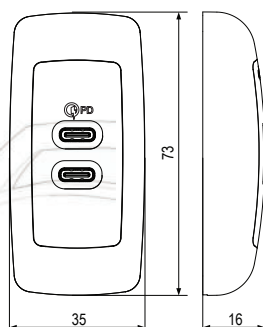


SPD07 Dual Port

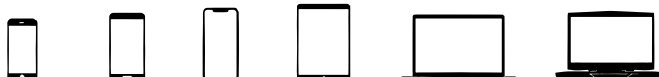


• 2 x 30W PD Charger Type C

• 5V - 3A, 9V - 3A, 15V - 2A, 20V - 1.5A



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SPD01C-B	3 044 0266	SPD01 PD Charger
SPD07CC-B	3 044 0265	SPD07 PD Charger



Compatible for Apple, Android, etc

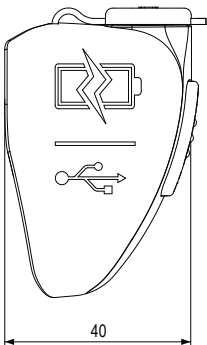
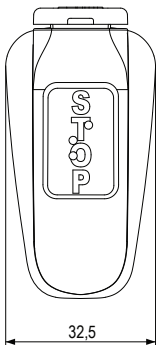
INTERIOR USB CHARGERS

SUC5 SERIES

"Scan the QR code for more information."



POLE MOUNT

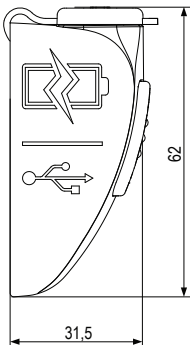


SUC6 SERIES

"Scan the QR code for more information."



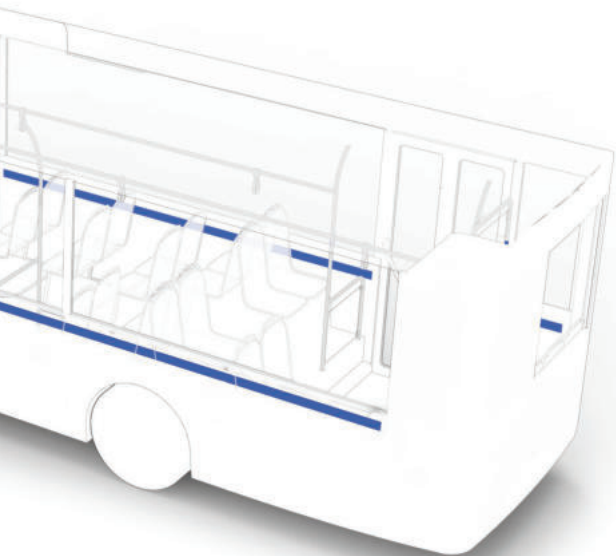
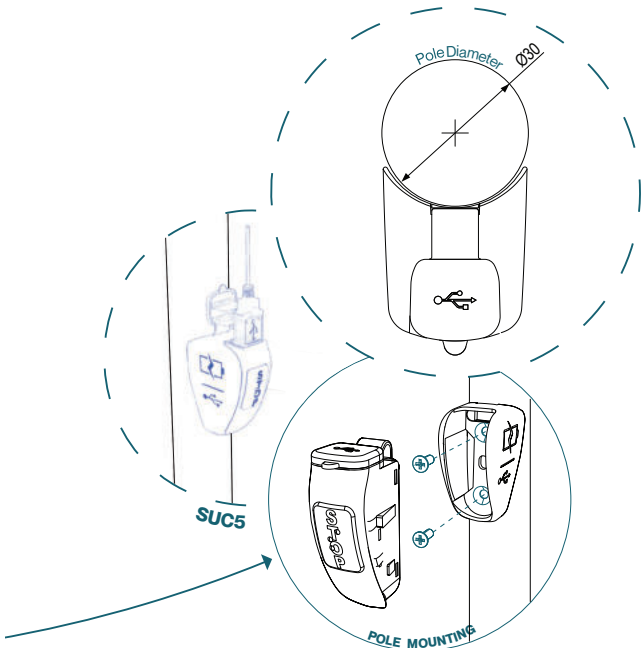
SURFACE MOUNT



SUC SERIES

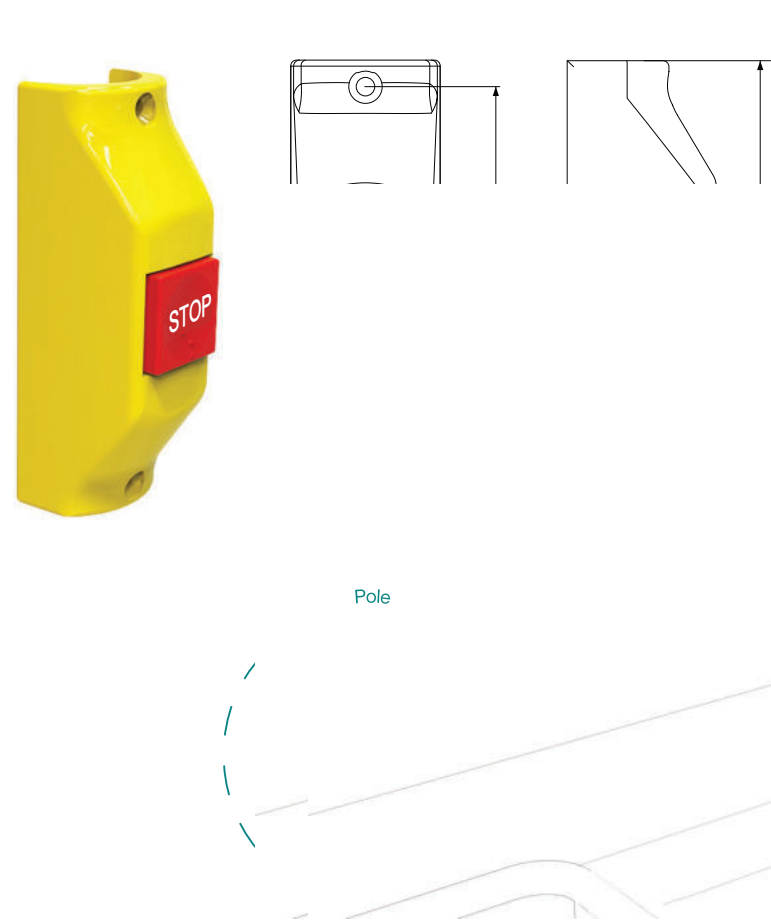
• 2 x USB Type A outputs

- High power USB charger
- Various colors led back light



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SUC5B.Y	3 044 0083	Blue LED / Yellow Body
SUC6B.GR	3 044 0066	Blue LED / Grey Body / Red Button

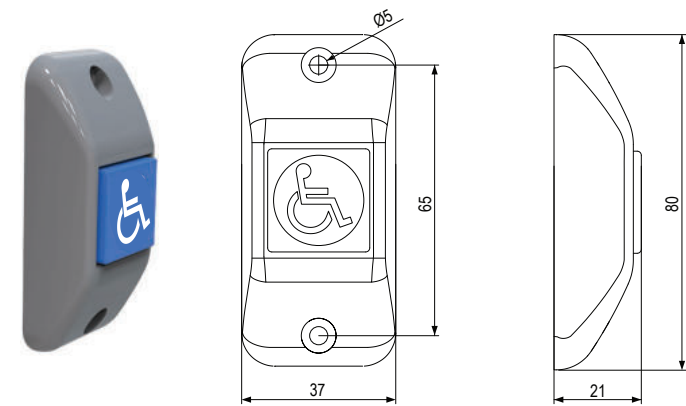
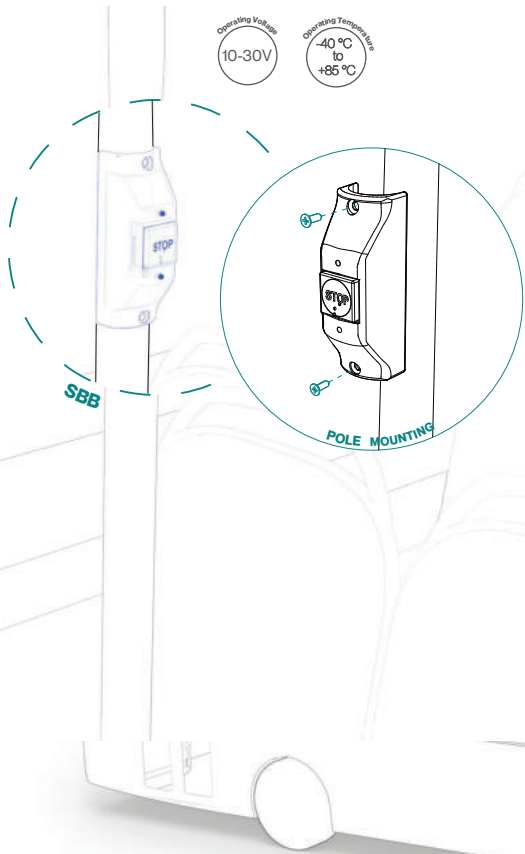
INTERIOR **BUTTONS**



SSB SERIES



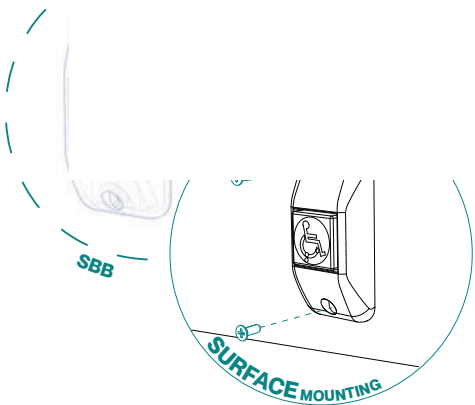
- Classic design hand rail and surface mount
- Available in various colors, figures & texts.



Button Symbols



Body Colors



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SSB606	3 038 0129	Yellow Body, Red Button, Stop Vertical, Braille
SSB857	3 038 0030	Grey Body, Blue Button, Disabled Vertical, Braille
SSB875	3 038 0036	Red Body, Blue Button, Disabled Vertical, Braille

INTERIOR BUTTONS



POLE MOUNT



SURFACE MOUNT

STBD SERIES

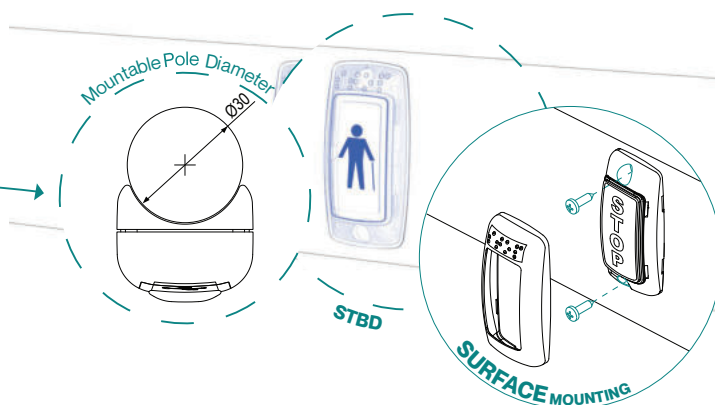
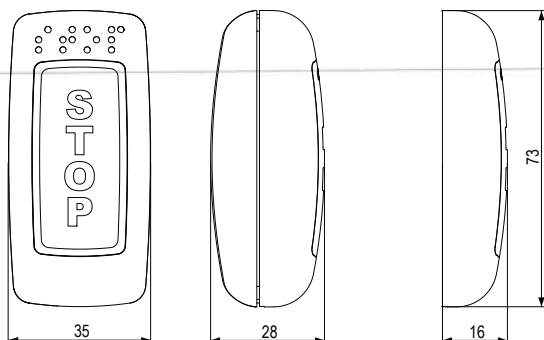
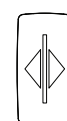
"Scan the QR code for more information."



- Touch button with back light
- Blinking led light and buzzer sound
- Surface or handrail mount
- Available in various colors, figures and texts
- With handrail adapter with stop logo and braille
- Symbol and Background Comply with **R107 Annex8 Regulation**



Figures and Texts Alternatives



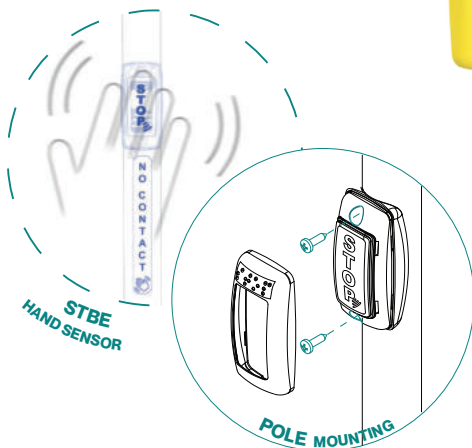
NO CONTACT

STBE SERIES

"Scan the QR code for more information."

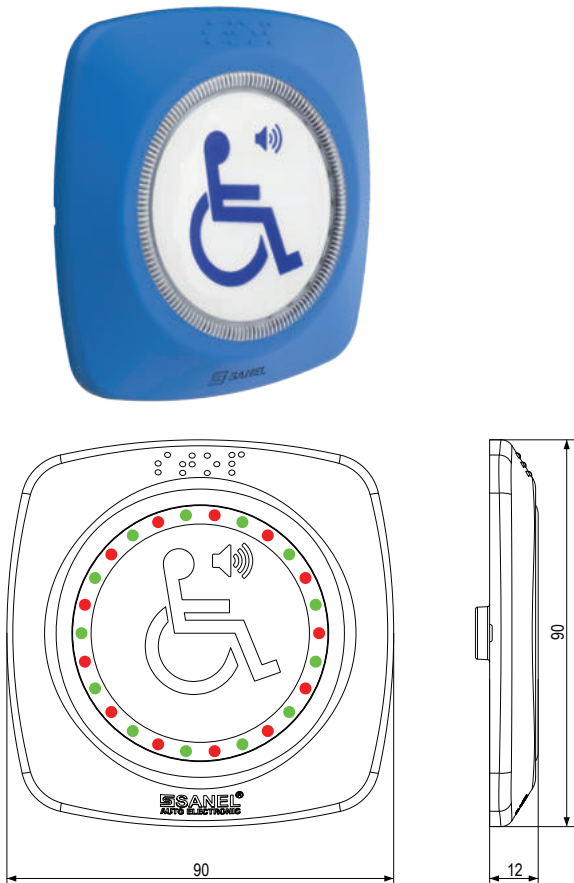


- No contact button with back light



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
STBD004.A	3 078 0008	Grey Body, Red Button, Stop Vertical (Handrail Type)
STBD007	3 078 0012	Grey Body, Red Button, Stop Horizontal (Flat Surface Type)
STBE001	3 078 0023	Yellow Body, Red Button, Stop Vertical (Handrail Type)
STBE002	3 078 0024	Yellow Body, Blue Button, Disabled Vertical (Handrail Type)

EXTERIOR **BUTTONS**



STBC SERIES



- Capacitive touch button
- Blinking led light and buzzer sound
- Surface mount
- Available in various colors, figures and texts
- Symbol and Background Comply with **R107 Annex8 Regulation**



Coding System

STBC	01	B	N/P	3/4	S/M	W/Y/G/DG
Product Code	Symbol	Body Color	Negative /Positive Out	Cable Quantity	Serigraphy Colour	Background Colour

Button Symbols



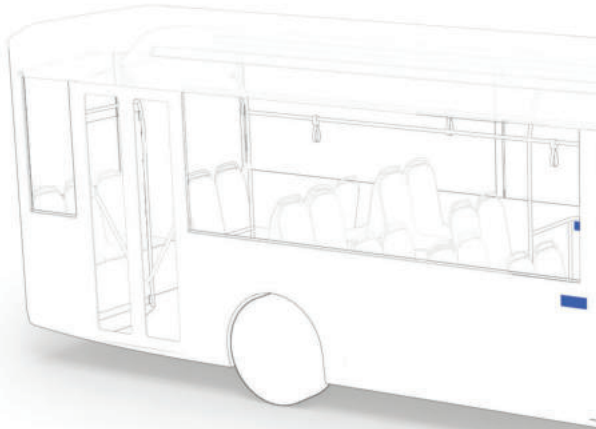
Body Colors



Serigraphy Colors



Background Colors

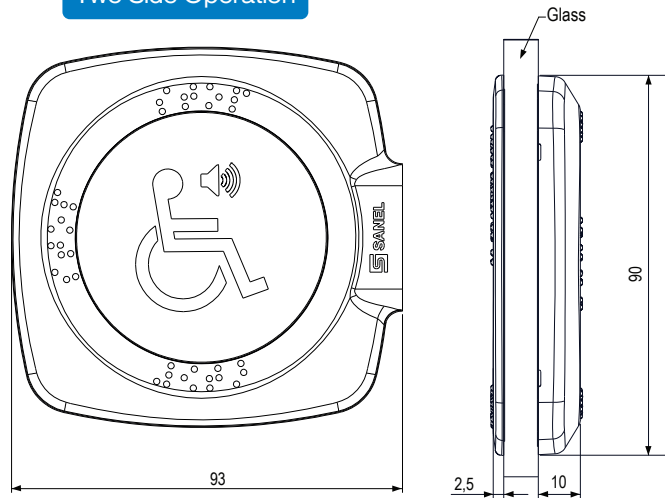


PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
STBC01BP4MW	3 071 0001	Disabled Capacitive Touch Button (with buzzer)
STBC03BP4MW	3 071 0021	Open Close Capacitive Touch Button (with buzzer)

EXTERIOR **BUTTONS**



Two Side Operation



STBG SERIES

Scan the QR code for more information.



- 2 function capacitive touch button
- Blinking led light and buzzer sound
- Glass mount, operation from inside and outside
- Available in various colors, figures and texts
- Programmable for various glass thickness
- Symbol and Background Comply with R107 Annex8 Regulation



Coding Sytstem

STBG	01	B	N/P	4/5	S/D	55/90
Product Code	Symbol	Body Color	Negative /Positive Out	Cable Quantity	Single / Double Glass Type	55°/90° Angled Body

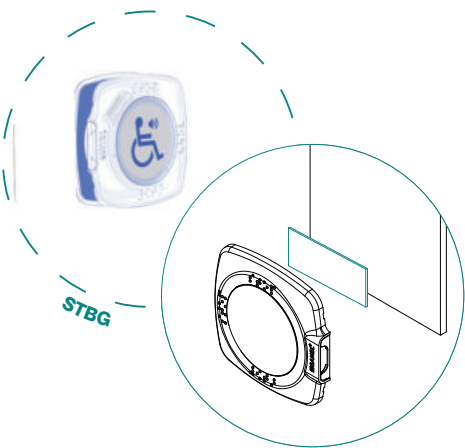
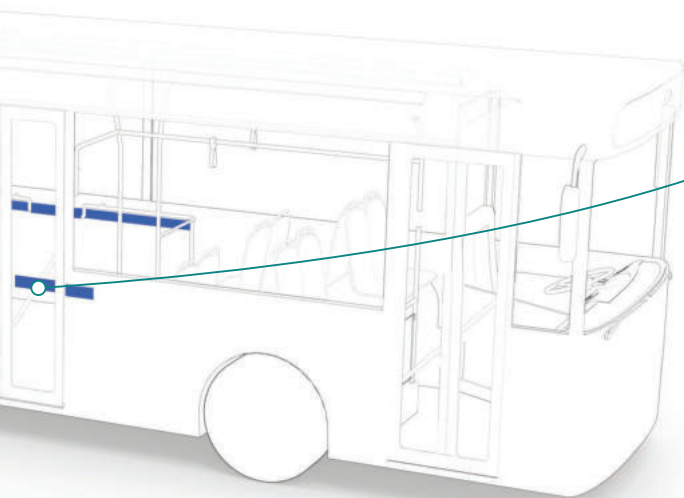
Button Symbols



Body Colors



Cover Type



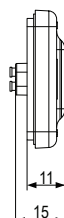
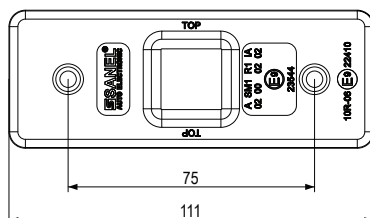
PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
STBG01BP4S60	3 071 0064	Disabled Glass Type Capacitive Touch Button (with buzzer)



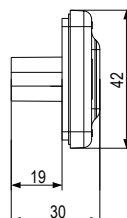
SML SERIES



- Retro reflector, led marker lamp
- Approved for Front, Side, Rear Positions
- Robust design, surface mount



SML01



SML02

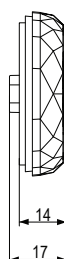
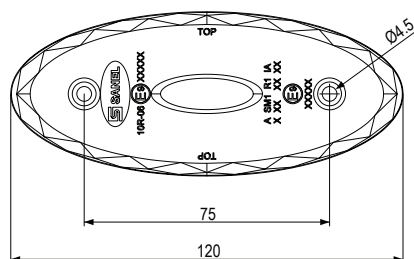
Connector Type

PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SML02Y	3 049 0127	Yellow LED Side Marker with Connector
SML02W	3 049 0126	White LED Side Marker with Connector
SML02R	3 049 0128	Red LED Side Marker with Connector

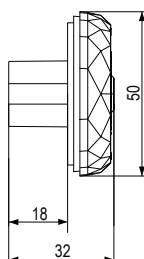
Wire Type

PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SML01Y	3 049 0103	Yellow LED Side Marker
SML01W	3 049 0080	White LED Side Marker
SML01R	3 049 0081	Red LED Side Marker

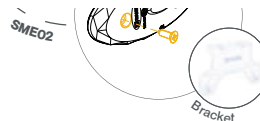
SME SERIES



SME01



SME02

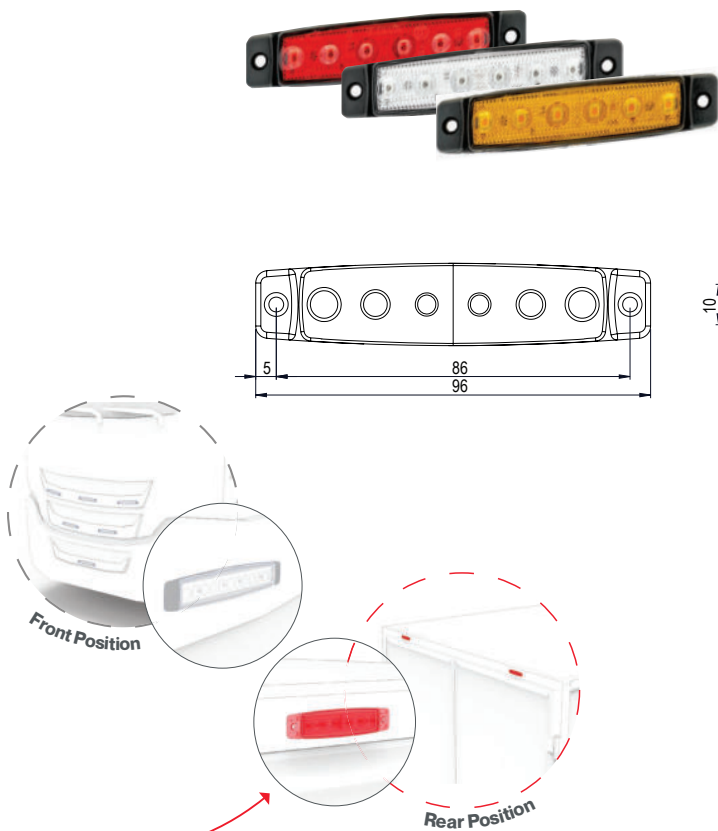


Connector Type

PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SME02Y	3 049 0116	Yellow LED Side Marker with Connector
SME02W	3 049 0117	White LED Side Marker with Connector
SME02R	3 049 0118	Red LED Side Marker with Connector

Wire Type

PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SME01Y	3 049 0110	Yellow LED Side Marker
SME01W	3 049 0111	White LED Side Marker
SME01R	3 049 0112	Red LED Side Marker



SBB SERIES

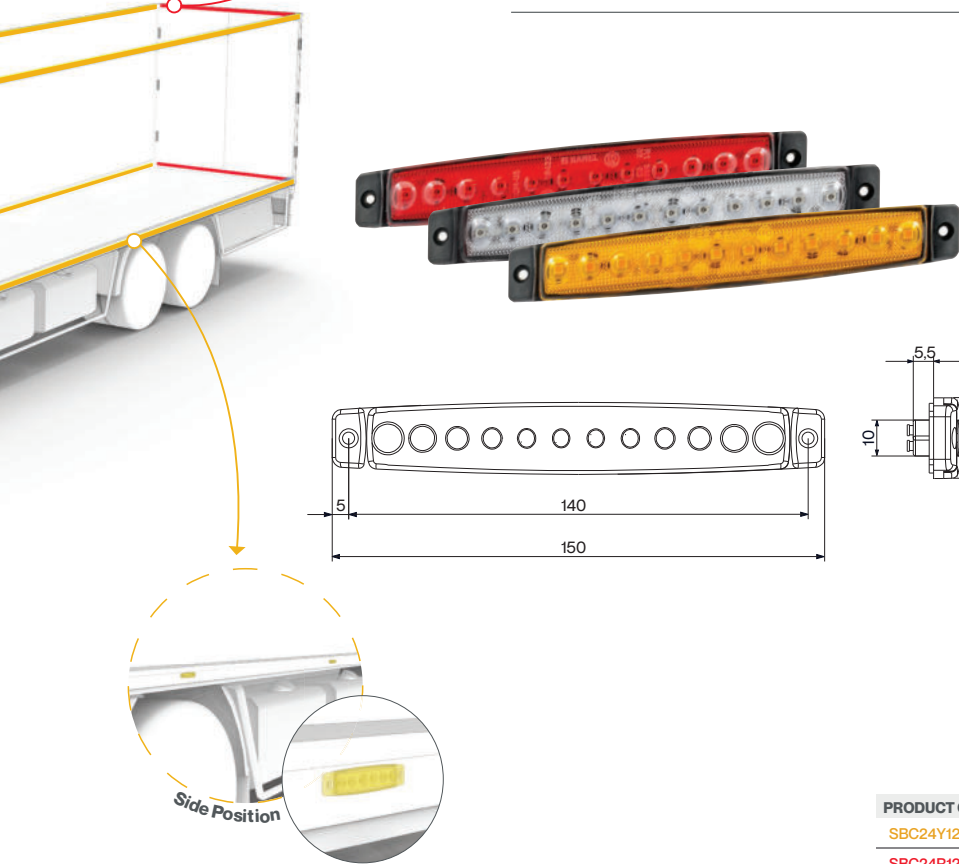


- Best seller, small size led marker lamp
- Approved for Front, Side, Rear Positions
- Surface mount
- Optional bracket
- Can be used both interior and exterior
- Various led colors available



Operating Voltage	Power Consumption	Luminous Flux	Operating Temperature
12V or 24V	0.5 W	30 Lumen	-40 °C to +85 °C

PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SBB12Y6	3 024 0007	12V - 6LED - YELLOW - STEP LIGHTING
SBB12R6	3 024 0013	12V - 6LED - RED - STEP LIGHTING
SBB12W6	3 024 0001	12V - 6LED - WHITE - STEP LIGHTING



SBC SERIES



- Long size, led marker lamp
- Approved for Front, Side, Rear Positions
- Can be used both interior and exterior
- Various led colors available



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SBC24Y12	3 076 0002	24V - 12 LED - YELLOW - STEP LIGHTING
SBC24R12	3 076 0008	24V - 12 LED - RED - STEP LIGHTING
SBC24W12	3 076 0001	24V - 12 LED - WHITE - STEP LIGHTING



S550 SERIES

"Scan the QR code for more information."

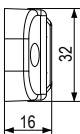
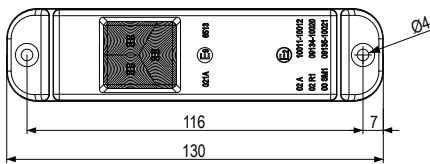


- Retro reflector, led marker lamp
- Approved for Front, Side, Rear Positions
- Robust design, surface mount



Operating Voltage
10-30V

Operating Temperature
-40 °C to +85 °C



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
S550.05	3 080 0001	3 LED Yellow Side Mark Lamp - 500mm - Click Cable
S550.06	3 080 0005	3 LED Red Mark Back Lamp - 1000mm - Click Cable
S550.07	3 080 0009	3 LED White Front Mark Lamp - 1500 - Click Cable

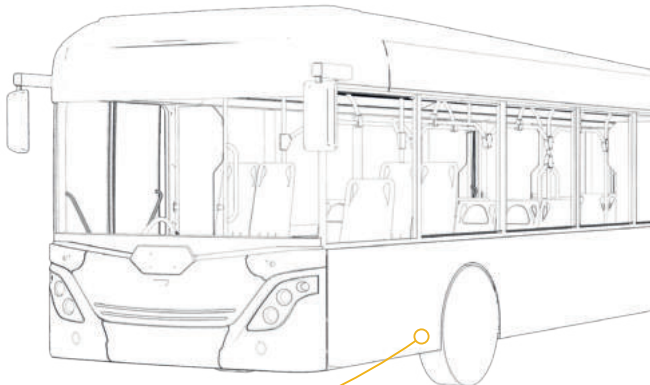
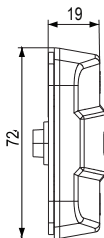
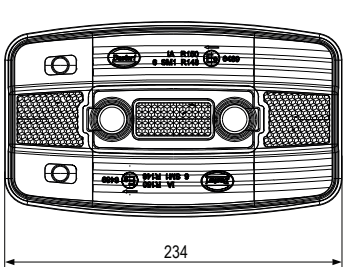


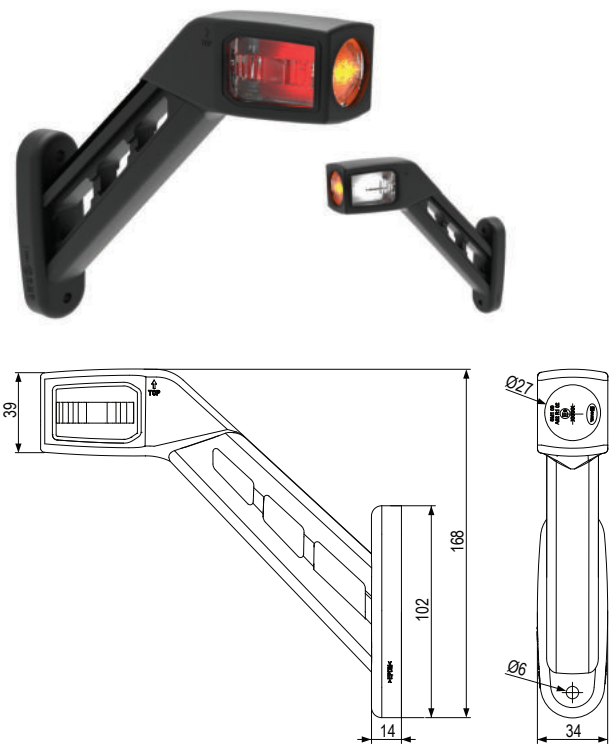
S237 SERIES

"Scan the QR code for more information."



- Direction Indicator / Side Marker / Reflex Reflector LED Lamp
- Amber / Clear Lens



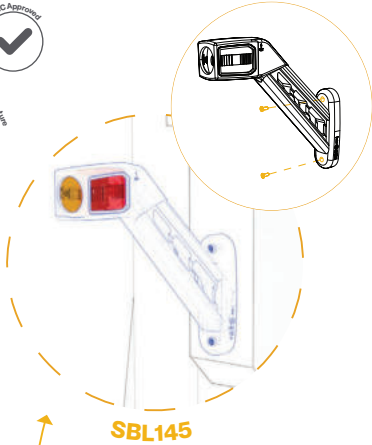


SBL145 SERIES

"Scan the QR code for more information."



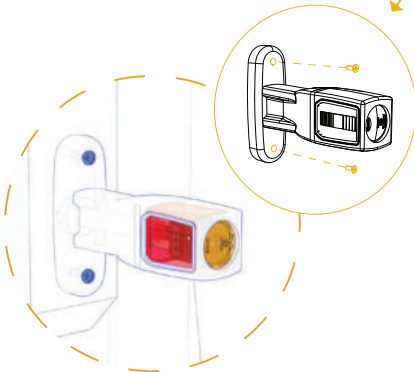
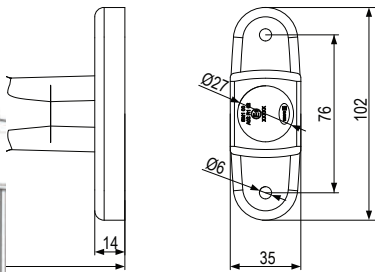
- Led marker lamp
- Approved for Front, Side, Rear Positions
- Robust design, surface mount



SBL145

SBL190 SERIES

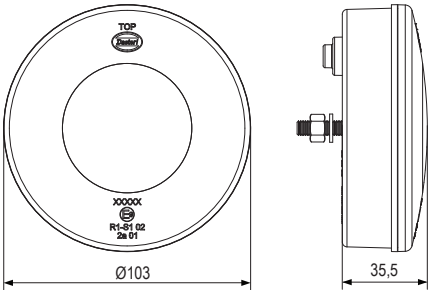
"Scan the QR code for more information."



SBL190

IT NUMBER	PRODUCT DESCRIPTION
082 0001	3 Function LED Marker Lamp - Short - 500mm Cable
082 0003	3 Function LED Marker Lamp - Long - 500mm Cable

EXTERIOR **REAR LAMPS**

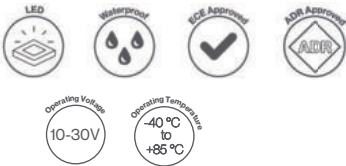


S-220 STD

"Scan the QR code for more information."

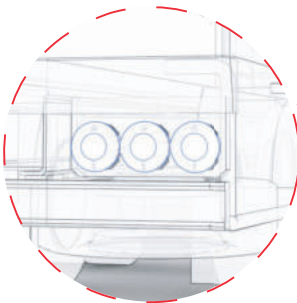


- Circular multifunction led lamp
- Stop / Tail / Direction functions
- Special reflector design



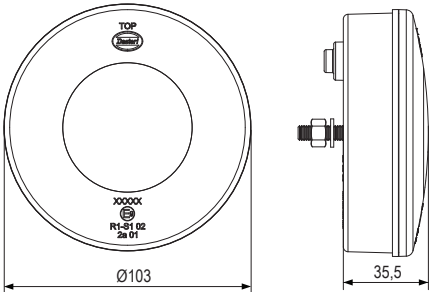
Operating Voltage
10-30V

Operating Temperature
-40 °C to +85 °C



S-220 STD

PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
S-220 STD	1041 0073	Stop/Tail/Direction Functions

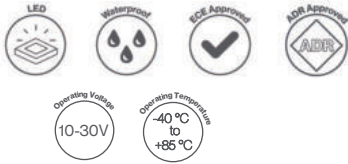


S-220 FR

"Scan the QR code for more information."

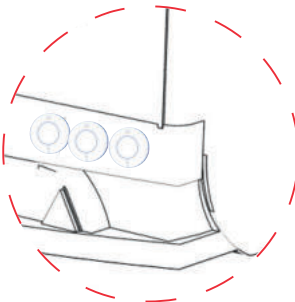


- Circular multifunction led lamp
- Fog – Reverse functions



Operating Voltage
10-30V

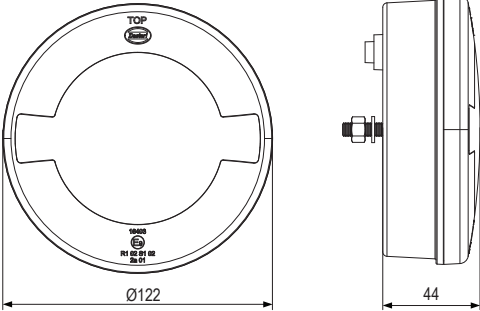
Operating Temperature
-40 °C to +85 °C



S-220 FR

PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
S-220 FR	1041 0089	Fog/Reverse Functions

EXTERIOR **REAR LAMPS**



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
S-230 STD	1041 0064	Stop/Tail/Dynamic Direction Functions

S-230 STD



Scan the QR code for more information

- Circular multifunction led lamp
- Stop / Tail / Dynamic Direction functions
- Special reflector design and neon tail light



LED



Waterproof



ECE Approved



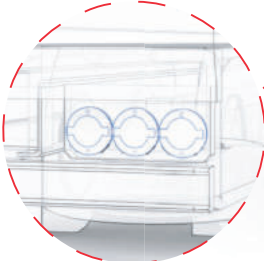
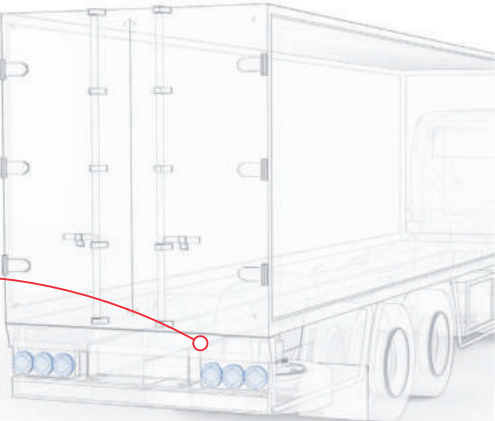
ADR Approved



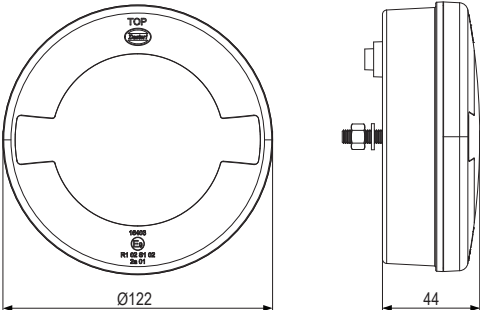
Operating Voltage
10-30V



Operating Temperature
-40 °C to +85 °C



S-230 STD



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
S-230 FRT	1041 0066	Fog/Reverse/Tail Functions

S-230 FRT



Scan the QR code for more information

- Circular multifunction led lamp
- Fog – Reverse – Tail functions



LED



Waterproof



ECE Approved



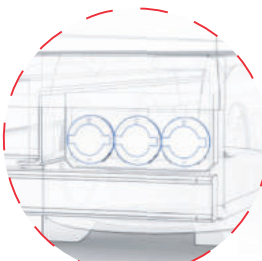
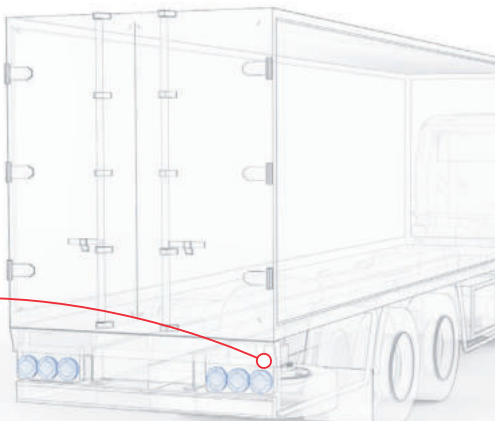
ADR Approved



Operating Voltage
10-30V

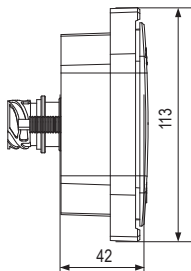
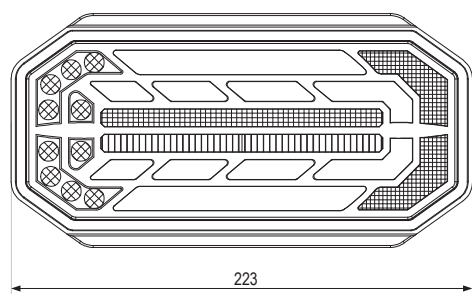


Operating Temperature
-40 °C to +85 °C



S-230 FRT

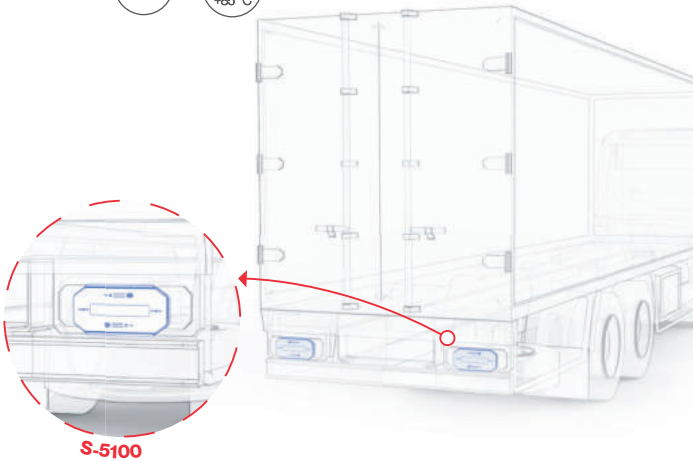
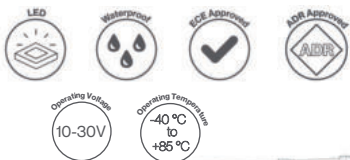
EXTERIOR REAR LAMPS



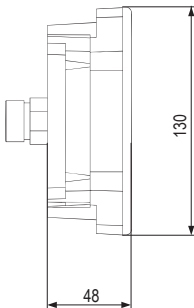
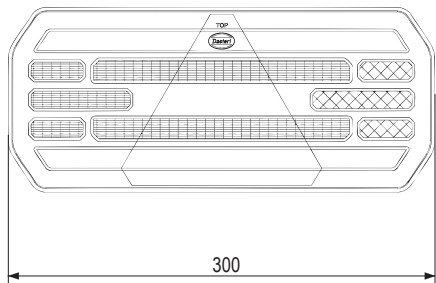
S-5100



- Rectangular multifunction led lamp
- Stop, Tail, Dynamic Direction Indicator, Fog, Reverse functions
- Reflex Reflector



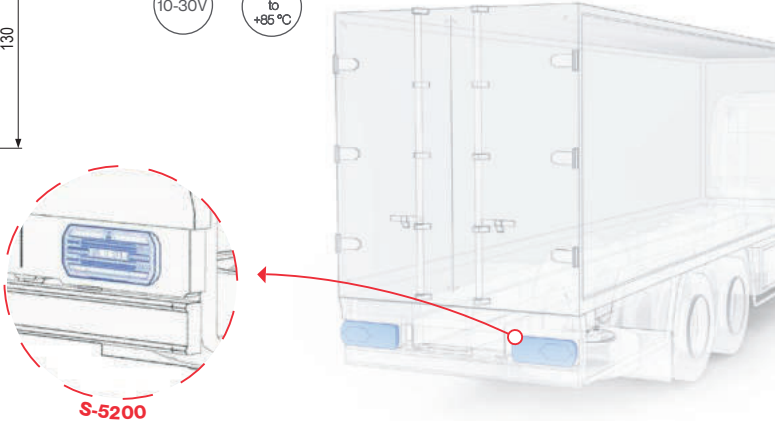
PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
S-5100	1 041 0108	6-Function Rear LED Lamp



S-5200

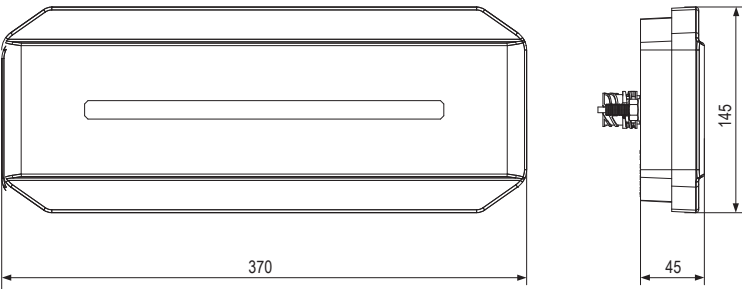


- Rectangular multifunction led lamp
- Stop, Tail, Dynamic Direction Indicator, Fog, Reverse functions
- Reflex Reflector (Triangular)



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
DSL-5204TRM	1 041 0344	Full LED stop lamp with right socket output
DSL-5205TRM	1 041 0345	Full LED stop lamp with left socket output

EXTERIOR REAR LAMPS

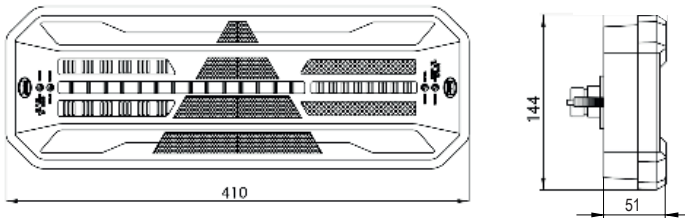
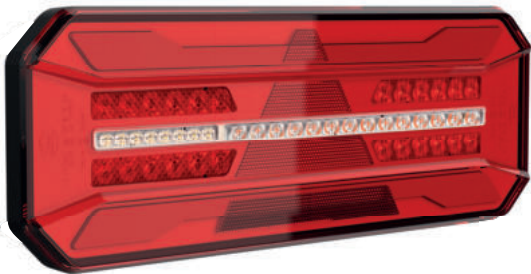
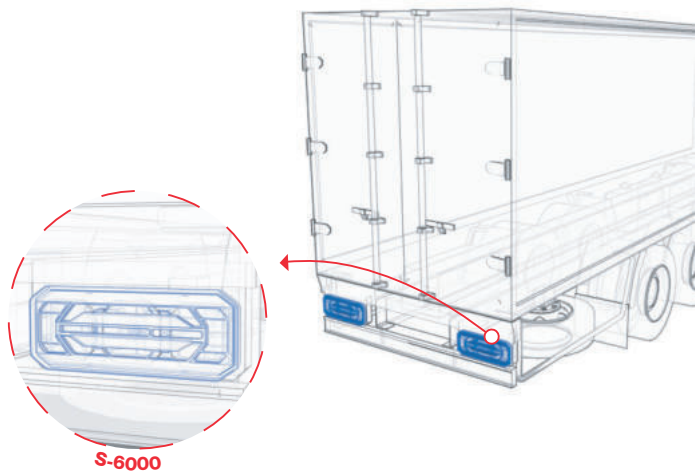
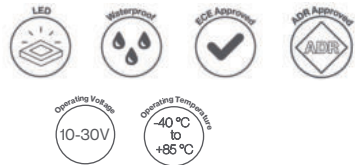


PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
S-6000	1 041 0255	6-Function Rear LED Lamp

S-6000



- Rectangular multifunction led lamp
- Stop, Tail, Dynamic Direction Indicator, Fog, Reverse functions
- Reflex Reflector

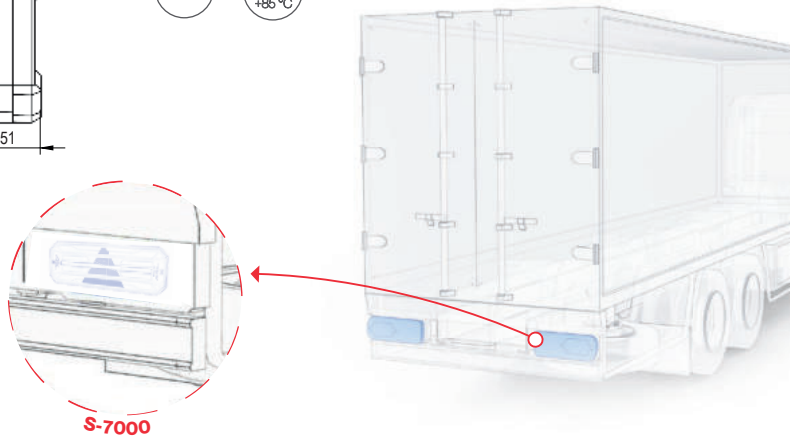
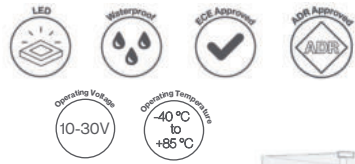


PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
DSL-7002TRM	1 041 0342	Right - Full LED stop lamp with socket outlet
DSL-7003TRM	1 041 0343	Left - Full LED stop lamp with socket outlet

S-7000



- Rectangular multifunction led lamp
- Stop, Tail, Dynamic Direction Indicator, Fog, Reverse functions
- Reflex Reflector (Triangular)





SJL

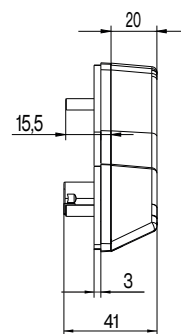
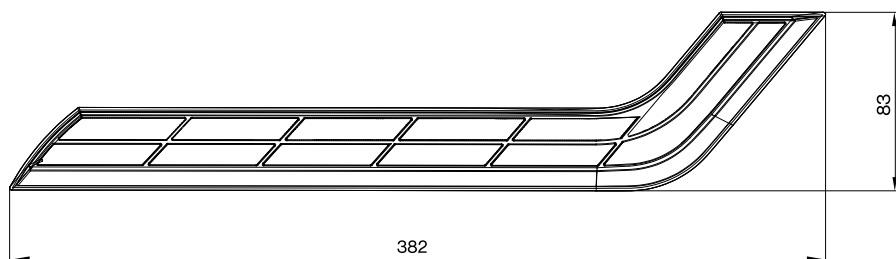
"Scan the QR code for more information."

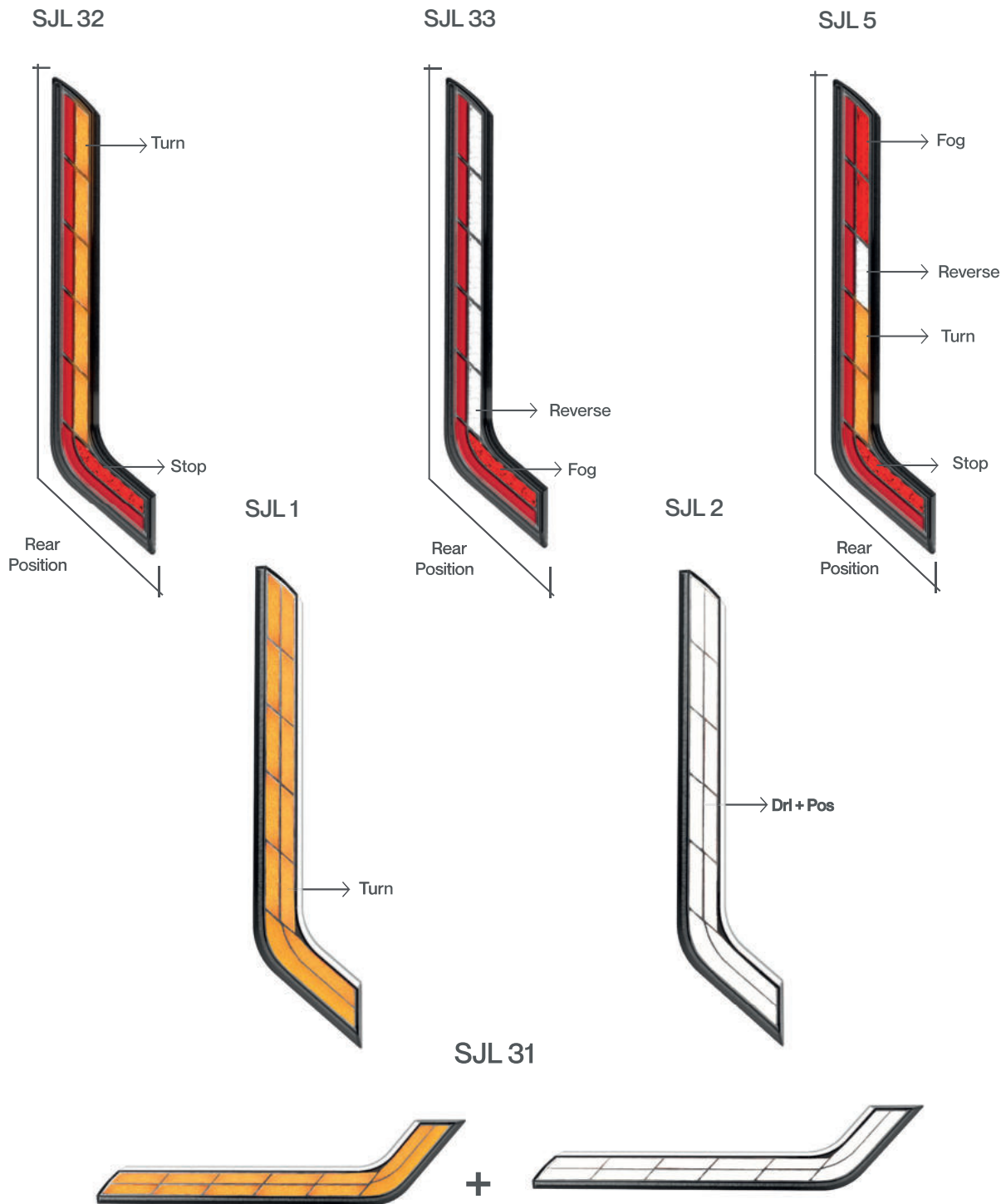


- Front or rear lamp up to 5 functions
- Plug-in sealed connector
- Dynamic direction indicator (optional)
- Welcome animation (optional)
- Surface mount



Welcome Animation





PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SJL5A	3 070 0166	Lamp 5 function with welcome animation (Fog + Pos + Stop + Reverse + Turn)
SJL5B	3 070 0167	
SJL1A	3 070 0169	Lamp 1 function with welcome animation (Turn)
SJL1B	3 070 0170	
SJL2A	3 070 0171	Lamp 2 function with welcome animation (Drl + Pos)
SJL2B	3 070 0172	
SJL31A	3 070 0173	Lamp 3 function with welcome animation (Drl + Pos + Turn)
SJL31B	3 070 0174	
SJL32A	3 070 0175	Lamp 3 function with welcome animation (Pos + Stop + Turn)
SJL32B	3 070 0176	
SJL33A	3 070 0177	Lamp 3 function with welcome animation (Fog+ Pos + Reverse)
SJL33B	3 070 0178	

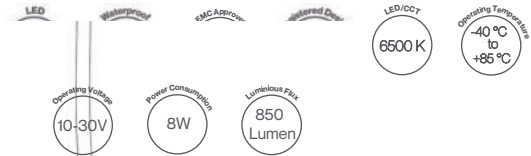
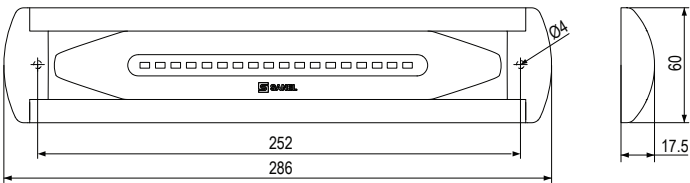
	FOG	DRL	POS.	STOP	REVERSE	TURN
SJL1						■
SJL2		■	■			
SJL31		■	■			■
SJL32			■	■		■
SJL33	■		■		■	
SJL5	■		■	■	■	■



"Scan the QR code for more information."

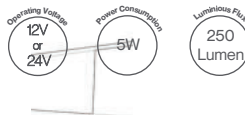
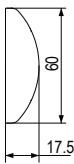
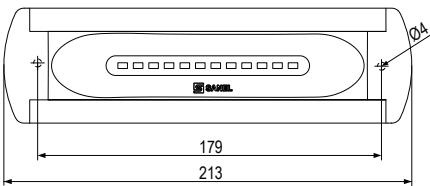
SFZL18 SERIES

- Zone light for exterior and interior
- High power & low consumption
- Straight angle view
- Surface mount



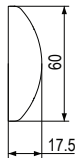
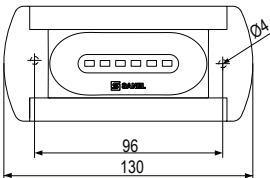
SFZL12 SERIES

- Mid size
- High power
- Straight angle view
- Surface mount

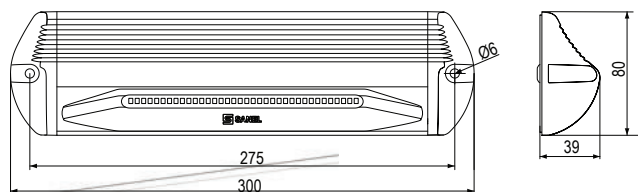


SFZLS6 SERIES

- Small size zone light for exterior and interior
- Low consumption
- Straight angle view
- Surface mount



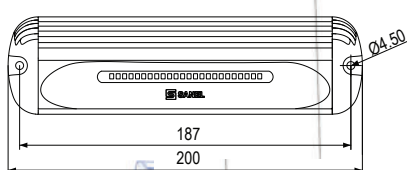
PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SFZLG18W	3 059 0001	12V 18 LED Interior - Exterior Lighting
SFZLS12G6W	3 059 0027	12V 6 LED Gray Body - Interior - Exterior Lighting
SFZLSBW12W	3 059 0031	12 White LED White Body Button
SFZLSBG12W	3 059 0032	12 White LED Gray Body Button
SFZLS24G6W	3 059 0028	24V 6 LED Gray Body Interior - Exterior Lighting



SZL SERIES



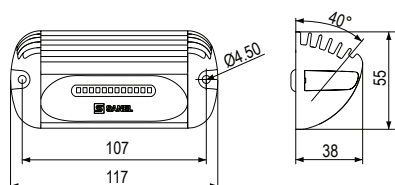
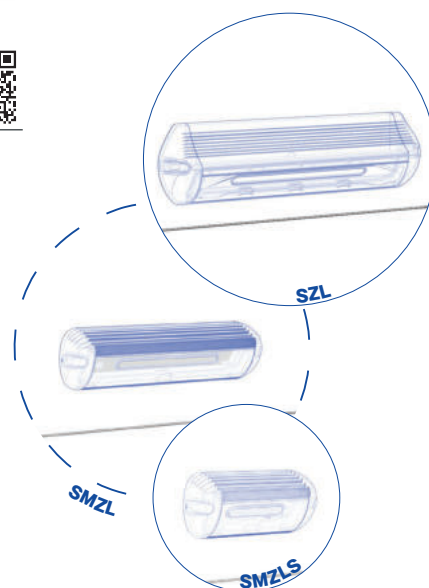
- Big size zone lamp for exterior use
- Unique design with high power light
- Inclined viewing angle
- Surface mount
- Optional body colors



SMZL SERIES



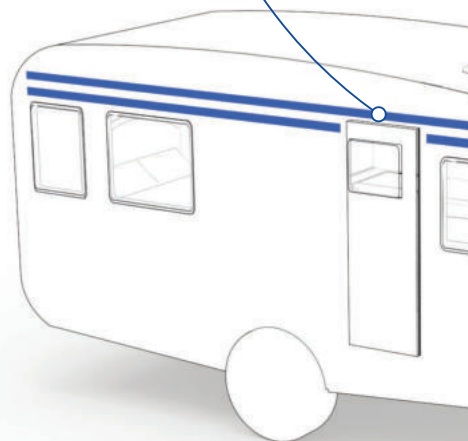
- Mid size zone lamp for exterior use
- Unique design with high power light
- Inclined viewing angle
- Surface mount
- Optional body colors



SMZLS SERIES



- Small size led zone lamp for exterior use
- Unique design with low power light
- Resistant to high temperature (105C)
- Perfect for "engine room" areas
- Inclined viewing angle
- Surface mount
- Optional body colors



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SZLG36W	3 045 0005	36 LED Exterior Lighting
SMZLG24W	3 045 0025	24 LED Exterior Lighting
SMZLS24G12W	3 045 0051	12 LED Exterior Lighting



S910 SERIES

"Scan the QR code for more information."

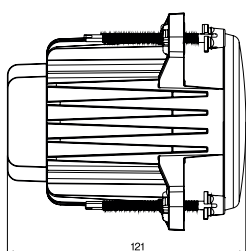
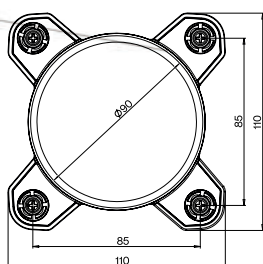


- 5 Function 90 mm LED head lamp
- Low power consumption
- Durable PC lens + hard coating
- Optional leveling
- Plug-in super seal connector

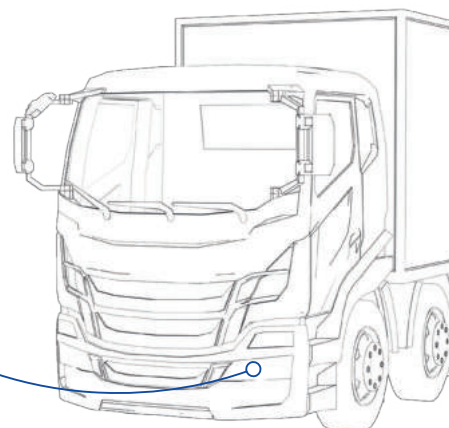


HB	25W
LB	17,5W
TURN	7W
DRL	7W
POS	0,5W

	HB	LB	DRL	PO	TURN
S910 H	●				
S911 L		●			
S912 HL	●	●			
S913 HLT	●	●			●
S914 HLDL	●	●	●	●	
S915 HLDPT	●	●	●	●	●
S916 HT	●				●
S917 LDP		●	●	●	



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
S910-H	3 079 0012	12/24V High Beam Lamp
S911-L	3 079 0013	12/24V Low Beam Lamp
S912-HL	3 079 0014	12/24V High Beam + Low Beam Lamp
S913-HLT	3 079 0015	12/24V High Beam + Low Beam + Turn Lamp
S914-HLDP	3 079 0016	12/24V High Beam + Low Beam + DRL +Pos.Lamp
S915-HLDPT	3 079 0017	12/24V High Beam + Low Beam + DRL +Pos. + Turn Lamp
S916-HT	3 079 0018	12/24V High Beam + Turn
S917-LDP	3 079 0019	12/24V Low Beam + DRL +Pos.



SWL100 SERIES

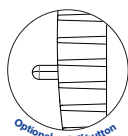
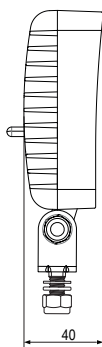
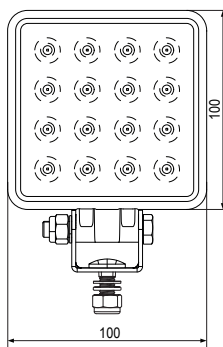
"Scan the QR code for more information."



- High power, square led projector lamp
- Stainless steel bracket, screw and nuts
- Adjustable bracket for viewing angle
- Optional switch



Operating Voltage	10-30V
Power Consumption	12W
Luminous Flux	1500 Lumen
LED/CCT	6500 K



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SWL100	3 019 0024	12/24V 16 Power LED 11W Work Lamp (1500 Lm , Waterproof)
SWL100.B	3 019 0019	12/24V 16 Power LED 11W Work Lamp (1500 Lm , Buttoned , Waterproof)

EXTERIOR FRONT LAMPS



S900 SERIES

"Scan the QR code for more information."

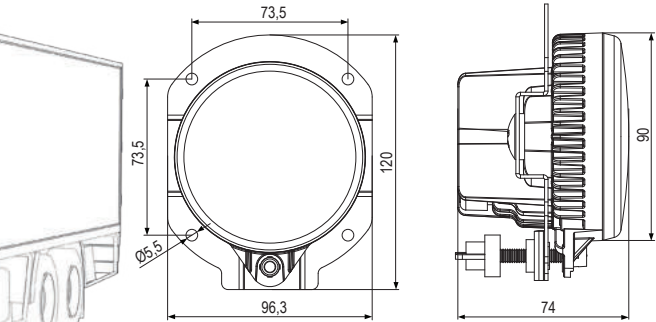


- 4 function 90 mm LED front lamp
- Low power consumption
- Durable PC lens + hard coating
- Optional leveling
- Plug-in super seal connector

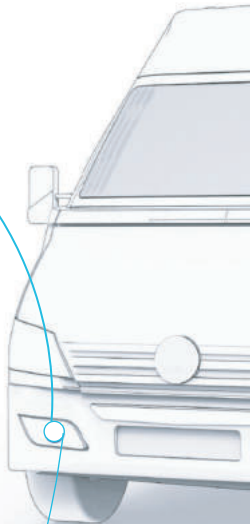
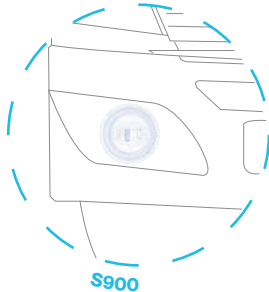


FOG	9W
TURN	7W
DRL	7W
POS	0,5W
C. TURN	3W

	FOG	DRL	PO	TURN	CT
S900 F					
S901 FT					
S902 FDP					
S903 FDPT					
S904 CTDPT					



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
S900F	3 079 0006	90mm Fog Lamp
S901-FT	3 079 0007	2 Function Multi Lamp (Fog, Turn)
S902-FDP	3 079 0008	3 Function Multi Lamp (Fog, Drl, Position)
S903-FDPT	3 079 0009	4 Function Multi Lamp (Fog, Drl, Position, Turn)
S904-CTDP	3 079 00010	3 Function Multi Lamp (Center Turn, Drl, Position)

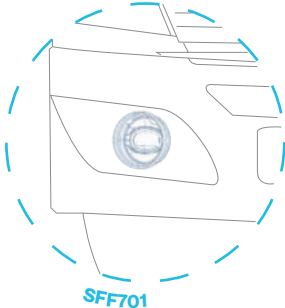
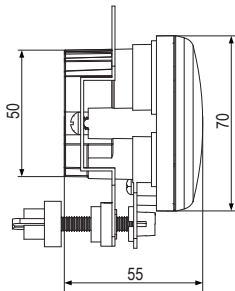
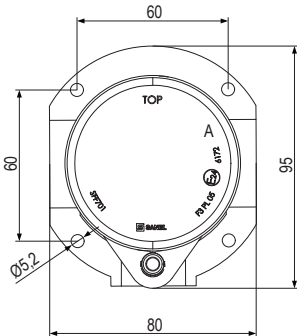


SFF701 SERIES

"Scan the QR code for more information."

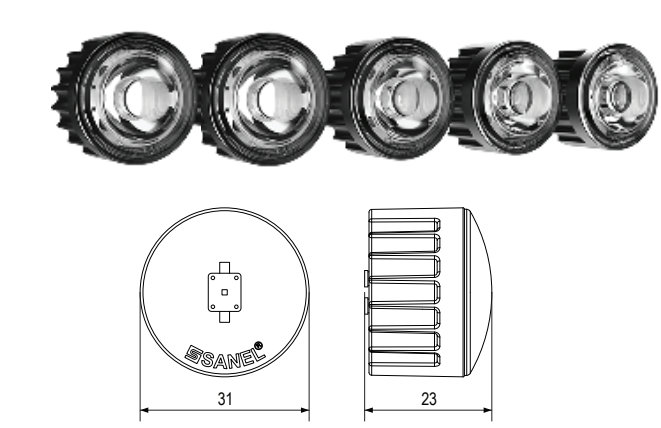


- Small size 70 mm, LED Front Fog lamp
- Low power consumption
- Durable PC lens
- Levelling mechanism



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SFF701	3 079 0002	Aluminum Metallized Coating Bezel
SFF701	3 079 0001	Black Bezel

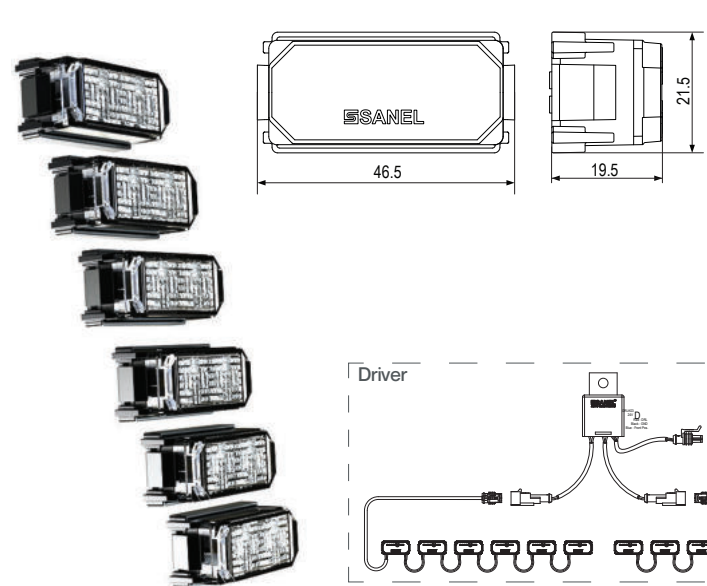
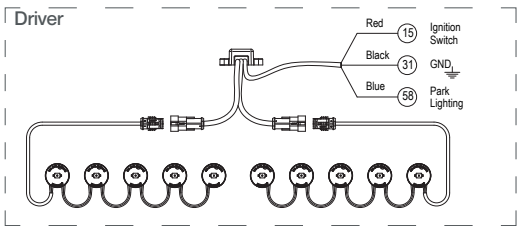
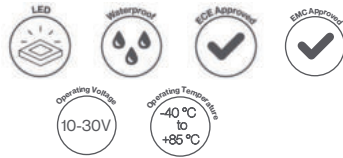
EXTERIOR FRONT LAMPS



DRL SERIES



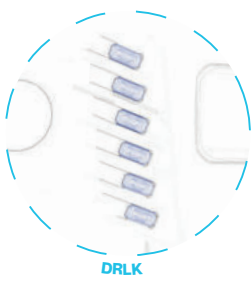
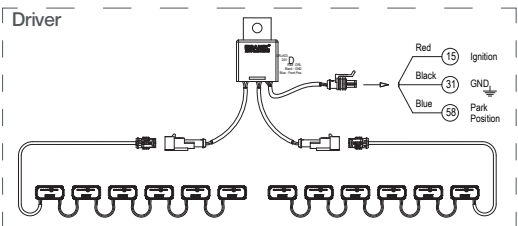
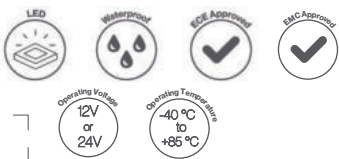
- Flexible circular design, daisy chain connection
- Front position and daytime running lamp
- 5×2 / 6×2 / 7×2 / 8×2 combinations available
- Approved for various shape and positions with optional brackets



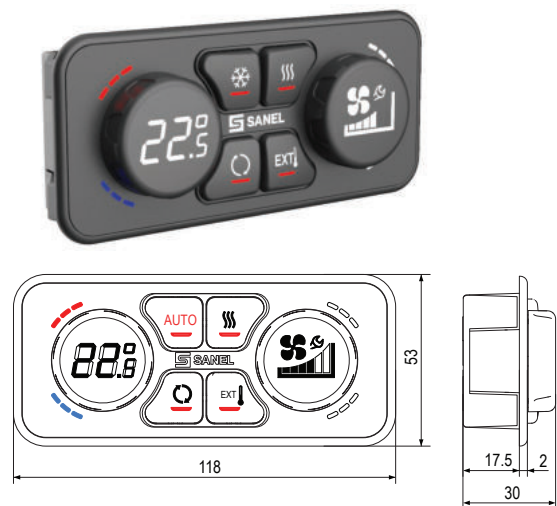
DRLK SERIES



- Flexible rectangular design, daisy chain connection
- Front position and daytime running lamp
- Approved for 6×2 with various shape and positions with optional brackets



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
DRL 5×2	3 009 0001	Power LED Daytime Running Lamp
DRL 6×2	3 009 0016	
DRL 7×2	3 009 0023	
DRL 8×2	3 009 0025	
DRLK 6X2	3 009 0103	Rectangle Daytime Running Light Unit LED



S2AC SERIES

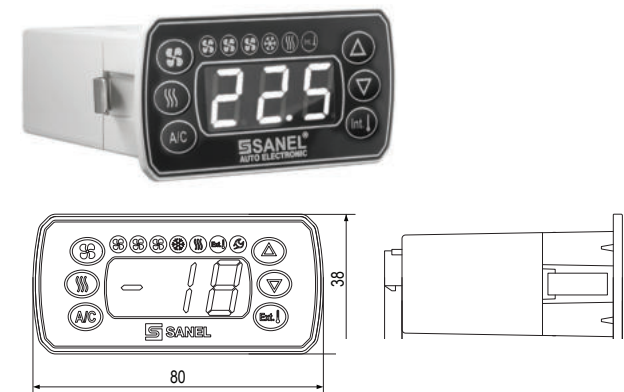


- Multifunction A/C control unit with heat control
- Customisation for button texts, software and company logo upon request
- Internal & external temperature display option
- New generation nob design
- Led backlight



S2AC

PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
S2AC	3 014 0067	Climate Control Unit (New)



SACU SERIES



- Small design A/C control unit, perfect for narrow areas
- Customisation for button texts, software and company logo upon request
- Internal & external temperature display option
- Led backlight

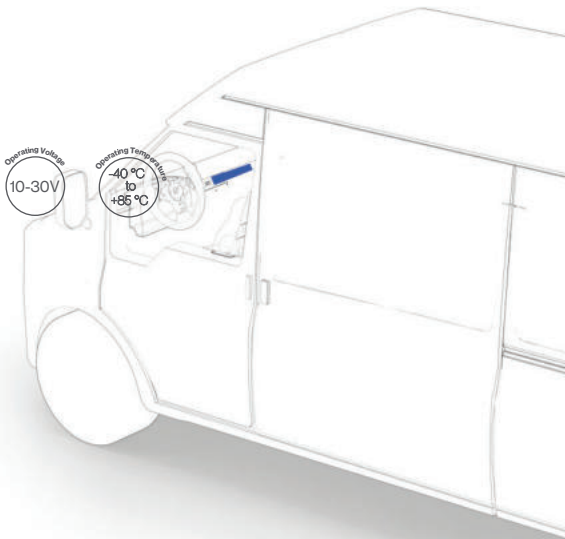


PRODUCT CODE	PART NUMBER
SACU14	3 014 0091



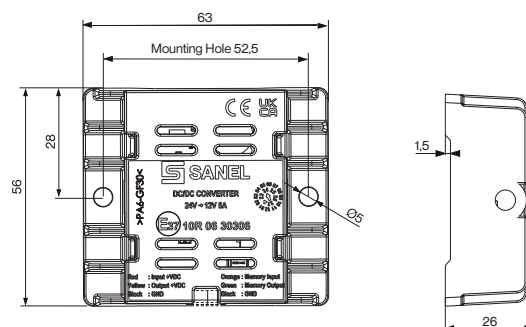
Operating Voltage	Operating Temperature
10V-30V	-40 °C to +85 °C

PRODUCT CODE	PART NUMBER
KK3	3 014 0003



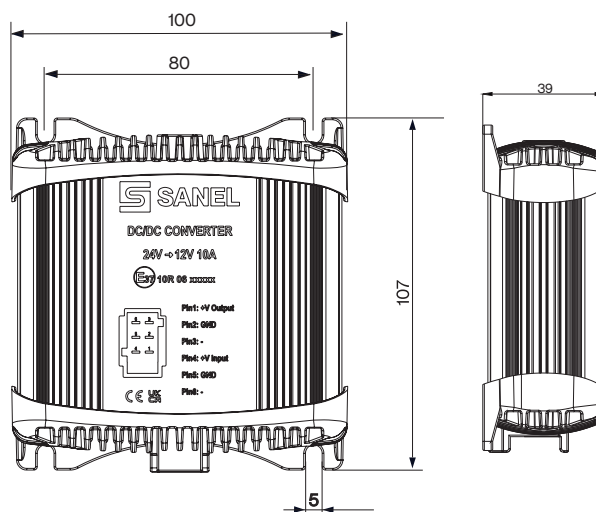
SC05 SERIES

Scan the QR code for more information.



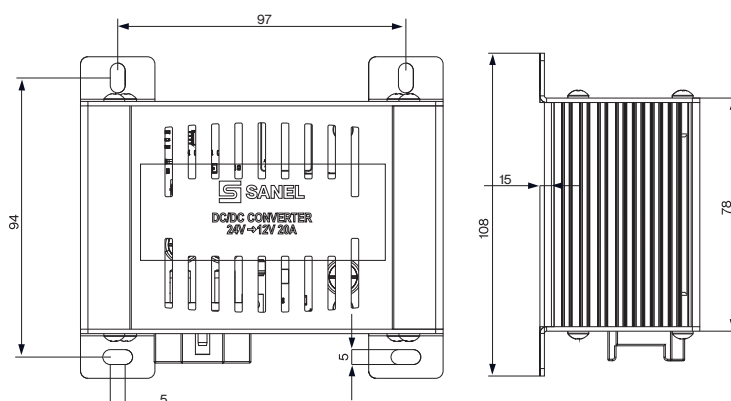
SC10 SERIES

Scan the QR code for more information.



SC20 SERIES

Scan the QR code for more information.

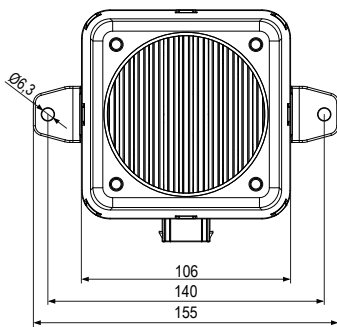


SC SERIES

- Input 24V DC > Output 12V DC
- High efficiency : 94%
- Short circuit, over voltage, over temperature protection
- Constant output voltage
- Low power consumption (max.20mA) in standby mode



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SC05	3 015 0071	5A New Generation Converter
SC05M	3 015 0072	5A New Generation Converter with Memory
SC10	3 015 0073	10A New Generation Converter
SC10M	3 015 0074	10A New Generation Converter with Memory
SC20	3 015 0075	20A New Generation Converter
SC20M	3 015 0076	20A New Generation Converter with Memory



AVAS SERIES



- Provides acoustic alerts for approaching electric or hybrid vehicles
- Contributes to safer roads by alerting other road users
- Suitable for electric or hybrid vehicles
- Approved ECE R10 and ECE R138
- Low power consumption
- Features customizable sound patterns
- Operates with CAN BUS network
- Waterproof Design
- ISO 26262 Functional Safety standards at ASIL B level



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SAS100	3 007 0016	(AVAS) Acoustic Vehicle Alerting System

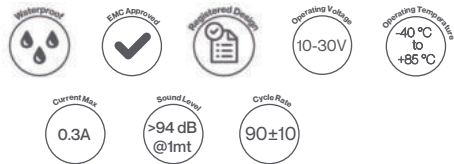


SBH834 SERIES

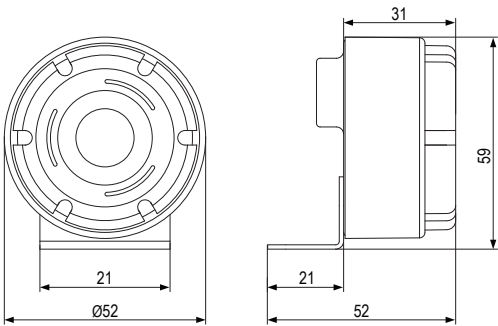


- Best seller back up alarm with metal bracket, for exterior use.
- ABS body and metal bracket

>94 dB @1mt



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SBH834	3 002 0040	12/24V Back Horn SBH834 (E24)



SDH002 SERIES



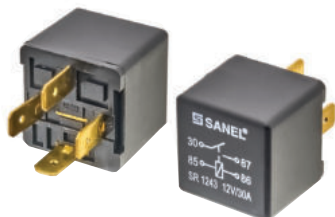
- Ding dong bell sound for interior use
- Optional sound versions available



PRODUCT CODE	PART NUMBER	PRODUCT DESCRIPTION
SDH002	3 007 001	12V-24V Audible Warning Horn

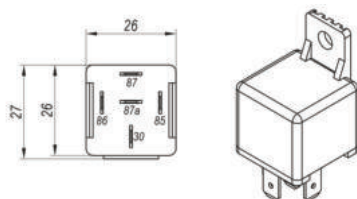
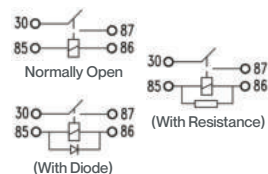


Mini Relays



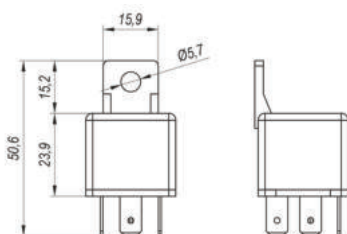
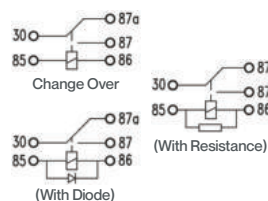
4 PIN Normally Open Mini Relays

- Voltage - Current : 12V - 30A
: 24V - 20A
- Types of Relay : SR -Normally Open Mini Relay
: SRD -Normally Open Mini Relay (With Diode)
: SRR -Normally Open Mini Relay (With Resistance)



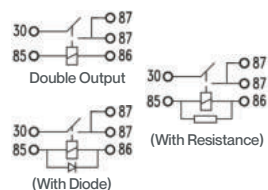
5 PIN Normally Over Mini Relays

- Voltage - Current : 12V - 20/30A
: 12V - 30/50A
: 24V - 10/20A
- Types of Relay : SR -Normally Open Mini Relay
: SRD -Normally Open Mini Relay (With Diode)
: SRR -Normally Open Mini Relay (With Resistance)

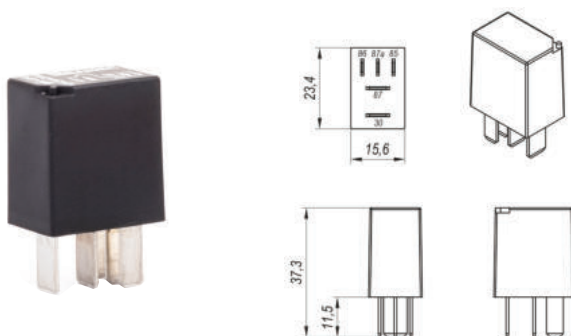


5 PIN Double Output Mini Relays

- Voltage - Current : 12V - 2 x 20A
: 24V - 2 x 15A
: 24V - 2 x 15A (Double Contact - Double Output)
- Types of Relay : SR -Double Output Mini Relay
: SRD -Double Output Mini Relay (With Diode)
: SRR -Double Output Mini Relay (With Resistance)

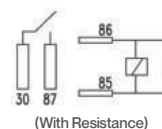


Micro Relays



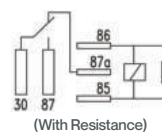
4 PIN Normally Open Micro Relay

- Voltage - Current : 12V - 25A



5 PIN Change Over Micro Relay

- Voltage - Current : 12V - 20/25A
: 24V - 10/15A

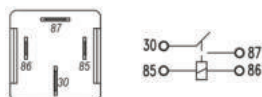


Power Relay



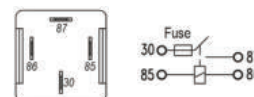
4 PIN Normally Open Power Relay

- Voltage - Current : 12V - 80A
: 24V - 40A



4 PIN Normally Open Mini Relay With Fuse

- Voltage - Current : 12V - 30A
: 24V - 20A



Warning & Control Units



RPM Control Unit



Towbar



Low Voltage Indicator Relay



Speed Limit Relay



Break Disc Control Relay



Flip Flop Open Door Relay



Vibrating & Echo Horn Relay

Flashers



Flashers for Passenger Cars & CV's



Flashers for no Fused Lamp Warning



Flashers With Cable Connection



Flashers for Tractors & Trucks

Level Sensors



Level Warning Relays



Level Warning Relays for Generators



Water Level Prob



Water in Fuel Filter Sensor

Timer Relays



Multi Purpose Timer Relay



Fog Lamps Timer Relay



Interior Light Timer Relay



Start Repeat Locking Relay



Battery Separator Relay



Wiper Timer Relay



Resistance Relay



Pre & Post Heating Relay



ISUZU
DRL + Signal



Otokar
Front Signal



MAN
LED Spot




4,2A USB Charger




LED Interior Lighting



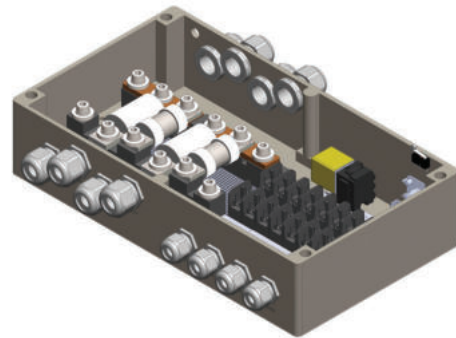
Otokar
n + Stop
Set



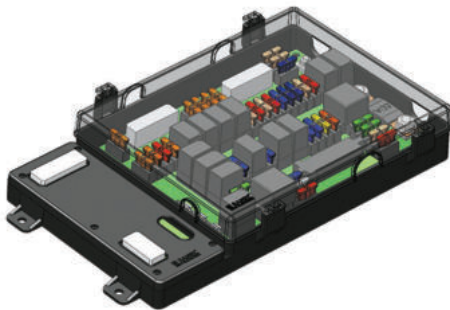
MAN
Glass Separation Wall



Fuse & Relay Board



Power Distribution Unit
for Electric Vehicles



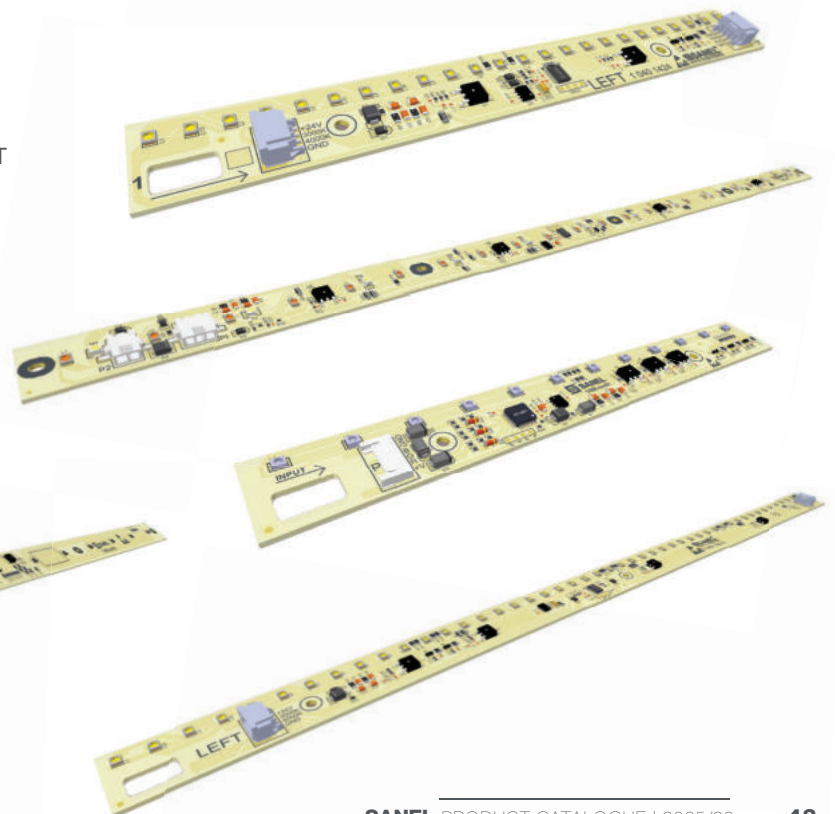
Electronic Control Unit



20AMP DC/DC
Switchmode Converter

Custom Design LED STRIPS

- Optional Night Lighting (Red - Blue - Green - Amber)
- RGB
- LED Power : 0,06WATT - 0,2 WATT - 0,5 WATT - 1WATT
- Stable LED color all over the vehicle 3000K - 6500K
- Constant current regulation
- Reverse voltage protection
- Dimming
- PCB lengths from 100mm up to 600mm
- Wiring designation for different vehicle lengths
- Voltage drop calculation
- Current capacity calculation
- Heat transfer monitoring
- LUX measurement and optimization
- Board to board or board to wire connection
- EMC Approval



ABOUT US



1980, TURKEY



17.500 m²



+400



40%

R&D

+40



Stamping Press



SMD



Injection Moulding



Wave Soldering



PCB Routers



Robotic Arms



Epoxy Potting



Wire Processing



Ultrasonic Welding



Laser Marking



Conformal Coating



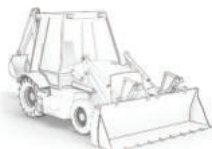
Machining Center



REFERENCES



APPLIED VEHICLES



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