



Quality All

Automotive Electronics



S H O R T F O R M C A T A L O G U E



FLUORESCENT LIGHTING PRODUCTS



EFA-2 SERIES ELECTRONIC FLUORESCENT FITTINGS (RECESSED MOUNT)

Fluorescent Tubes: 8-13-18 W,
2 x 8-2 x 13 W
Optional: LED Night Light, Long Life,
IP62 Dust-Proof



EFS-1 SERIES ELECTRONIC FLUORESCENT FITTINGS (SURFACE MOUNT)

Fluorescent Tubes: 8-13 W
Optional: Blue or Green LED Night Light,
Optional Switch



EFC-1 SERIES ELECTRONIC FLUORESCENT FITTINGS (SURFACE MOUNT)

Fluorescent Tubes: 8-13 W T5,
Fluorescent Tubes: 14-21-28-35 W TL5
Switching Life: > 100,000 (Long Life)
Optional: Dimming LED Night Light,
Loudspeaker, Switch



LLC-2232.LSH LED LIGHT UNITS (SURFACE MOUNT)

Supply Current: 180 & 360 mA
LED Type: High Flux 24 pcs
Illuminance: 43 lux @1m
Options: LED night light, Loudspeaker,
Switch



EFC-2 SERIES ELECTRONIC FLUORESCENT FITTINGS (SURFACE MOUNT)

Fluorescent Tubes: 8-13-14-21-28-35 W
Switching Life: > 100,000 (Long Life)
Night Light: Blue or Green
Loudspeaker: 4 Ohm, 5 W
Dimm: 65% (Optional)



EFC-2182.LTH, EFC-21D2.LTH TOP LIGHT ELECTRONIC FLUORESCENT FITTINGS

Fluorescent Tubes: 8-13 W
Switching Life: > 100,000 (Long Life)
Top Lights: Super Bright White LED
Night Light: Blue or Green
Loudspeaker: 4 Ohm, 5 W



PPB-3, PPB-4 SERIES TL5 LAMP - ELECTRONIC FLUORESCENT BALLASTS (Long Life)

Tube Type: TL5 (16 mm dia)
Tube Power: 8-13, 14-21-28-35 W
Switching Life: > 100,000 (Long Life)
Optional: Dimming and Lamp sense



PPB-3, PPB-4 SERIES T8 LAMP - ELECTRONIC FLUORESCENT BALLASTS

Tube Type: T8 (26 mm dia)
Tubes Power: 18-36-58 W, T8
Switching Life: > 100,000 (long Life)
Optional: Dimming and Lamp sense

LED LIGHTING PRODUCTS



CLS-LDE SERIES CONTINUOUS DIRECT & INDIRECT LED LIGHTING SYSTEMS

No dot effect, no dark area LED Lighting
Adjustable CCT (3000K-6000K) by Vario LEDs
RGB Indirect Light & Night Light
Adjustable RGB night light color
Full Digital Soft Keys with Touch Screen LCD Panel
LCP series LCD touch panel PWM control unit
Sunset, Sunrise and Rainbow effects
Programmable as per customer's specifications



CUSTOM DESIGN AMBIANCE & CEILING CONTINUOUS LED LIGHTING SYSTEM

No dot effect, no dark area Bus LED
Lighting
10-12 m one piece Continuous PC Lens
Long Life LED Strip Modules
24Vdc/12Vdc LED Drivers with night light
output and 1 step dim or continuous dim
adjustment



LD SERIES LED SPOT LIGHTS

LED Spot Type: MR11 and MR16
Illuminance: 750 to 950 lux @1m
View Angle: 23°
Fixtures: Fix Head and Movable Head
With EMC filter and protection circuit



LPD SERIES LED SPOT LIGHTS

Low Profile LED Spot
Operating Voltage: 9 to 32Vdc
Power: 4.4 W
Illuminance: 440 to 460 lux @1m
View Angle: 30°
Fixtures: Movable Head
Optional: Warm White Type
With internal EMC filter and protection
circuit

All products have 24Vdc and 12Vdc types.



LED LIGHTING PRODUCTS



**LSM 2 SERIES
LED STRIP LIGHT MODULES**
Number of SMD LEDs: 24 & 30
Module Dimensions: 2 x 50 cm
Illuminance: 27 to 62 lux @1mf
Optional: Blue or Green LED night light
Connector: 3A



**LSF 2, LSF 3 SERIES
LED LIGHTING FIXTURES**
LED Lights: LSM 2 or LSM 3
Size: 611/1111/1611 x 52 x 25 mm
Surface Mount
Aluminum Extrusion Chassis
Plastic Caps and PC Diffuser
Driver: LDM type Linear Driver 3A
Illuminance: 20 to 65 lux @1m (LSF2)
Illuminance: 57 to 170 lux @1m (LSF3)



**LSM 3 SERIES
LED STRIP LIGHT MODULES**
Number of SMD LEDs: 24 & 30
Module Dimensions: 2 x 50 cm
Illuminance: 75 to 160 lux @1mf
Optional: Blue or Green LED night light
Connector: 5A



**LSF 5 SERIES
LED LIGHTING FIXTURES**
High Brightness
No dot effect, no dark area LED lighting
LED Lights: LSM 5 LED Strip Modules
Size: 680/1180/1680 x 82.5 x 35 mm
Surface Mount
Aluminum Extrusion Chassis
Plastic Caps and PC Diffuser
Driver: LDM type 2.5A driver
Illuminance: 170 to 365 lux @1m



**LSM 4 SERIES
LED STRIP LIGHT MODULES**
Number of SMD LEDs: 24 & 30
Module Dimensions: 2 x 50 cm
Illuminance: 225 to 280 lux @1mf
Optional: Blue or Green LED night light
Connector: 5A



**LDP SERIES
LED LIGHTING FIXTURES**
Surface mounting
Low profile
Low cost
Optional Night Light



**LSM 5 SERIES
LED STRIP LIGHT MODULES**
Number of SMD LEDs: 24 & 30
Module Dimensions: 2x50 cm
Illuminance: 208 to 260 lux @1mf
Optional: Blue LED night light
Connector: 9A Press Fit Connector
Optional: Warm White Type



**RLL SERIES RECESSED MOUNTING
LED LIGHTING FIXTURES**
High Brightness, Reduced Dot Effect
Dimensions: 580, 1080 mm x 98 mm
Illumination: 140 to 230 lux @1m
Optional: Dim and Night Light, IP6K2
isolation



**LSM 6 SERIES
LED STRIP LIGHT MODULES**
Number of SMD LEDs: 24 & 30
Module Dimensions: 2x50 cm
Illuminance: 175 to 225 lux @1mf
Optional: Blue night light
Connector: 5A
Optional: Warm White Type.



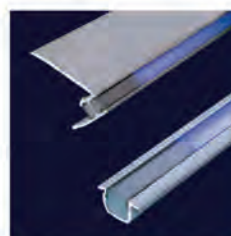
LGP SERIES LED PANEL FIXTURES
Very smooth LED light panel
Very homogenous light
No dot effect no dark area
Very Low Profile 19.7 mm
Illumination: 175 to 235 lux @1m
Multi Co-extrusion PC Profile
Custom design lengths
Blue, green night lights



**LLF SERIES
SURFACE MOUNT LED FIXTURES**
Dimensions: 408, 350, 1050,
1350 mm x 87 mm
Very Low Profile 25 mm
No dot effect LED light
Illumination: 175 to 235 lux @1m
Optional: Blue Night Light, Dimm



**BAL-101 & BAL 201
BUS AISLE LIGHTS
BSL-101 & BSL-201
BUS STEP LIGHTS
(Super Bright SMD LED)**
LED Colours: Blue, Green, Red, Yellow,
White and Red-Blue
Life Time: 50,000 hours



**ALU & SLU SERIES
AISLE AND STEP LIGHTS - FIBER
OPTIC LED**
Light: Fiber Optic Rod
Illumination: LED (Blue, Red, Yellow, Green,
White)
Profile: Aluminum Extrusion
Options: Custom design profiles

All products have 24Vdc and 12Vdc types.



PASSENGER INFORMATION PRODUCTS



BSU-403.L1, BSU-403.L2 ONE & TWO SECTION BUS SIGN UNITS

Display Area: 155 x 48 mm
Backlight: LED
FSB Sign: 91/671/EEC complied or Custom Designed
WC Sign: Red or Green & Red STOP



DBC-403.A SERIES DIGITAL BUS THERMOMETER CLOCK WITH STOP & WC SIGN

Display Size: 38 mm (1.5") Ultra Bright LED
Optional Features:
RTC Real Time Clock with backup battery
Automatic display Dimm
Digital temperature sensor
Sign Modes: Flashing STOP sign & WC
CAN-BUS Version: DBC-403.AC with BSU-403.XX



CUSTOM DESIGN CAN BUS CLOCK & INFORMATION UNITS

Display: LED
Signs: LED or LED Back lighted
Signs: FSB, WC, Clock, Temperature
FSB Sign: 91/671/EEC compliance



BIS-2111.RT BUS INFORMATION SYSTEM

Display: 11 digit 1.2" red dot matrix
Displays Time, Temperature, FSB,
multilingual STOP sign, WC
Special signs and wordings can be ordered
RTC (Real Time Clock) with internal backup
battery
Time Mode: 12 or 24 hours options
Temperature: Digital sensor
CAN-BUS Version: BIS-2111.C



BSU-101 & BSU-111 BUS SIGN UNIT

Stop, WC, Exit Sign Unit
Display Area: 88 x 31 mm
Signs customer required types
Backlight: Red



DBC-601, DBC-611 DIGITAL BUS CLOCK

Surface mounting & uniform shape
Display: 1.2" (30.5 mm) 7 segments, 4 colors
RTC (Real Time Clock) with internal backup
battery
Time Mode: 12 or 24 hours options
Temperature: Digital sensor
CAN-BUS Version: DBC-601.C with BSU-602.C



BSU-601, BSU-611, BSU-602, BSU-612 BUS SIGN UNITS

Surface mounting & uniform shape
Display Area: 146 x 48 mm or 2 sec. 72x48 mm
Backlight: SMD LED
FSB Sign: 91/671/EEC compliance
WC Sign: Red or Green & Red
Any shape or text can be ordered.



DBC-601.SR, DBC-611.SR DIGITAL BUS CLOCK WITH STOP SIGN

Surface mounting & uniform shape
Display: 1.2" (30.5 mm) alpha-numeric
segments, 4 colors
RTC (Real Time Clock) with internal backup
battery
Time Mode: 12 or 24 hours options
Temperature: Digital sensor
STOP Sign: Flashing

OTHER PRODUCTS



CON-201, CON201.N, CON-201.NCD DC/DC SWITCH MODE LED DRIVERS

Supply Voltage: 24VDC
Output Voltage: 12 VDC
Output Current: 10 A
Optional: Night Light Output, 1 Step
Adjustable Dimm, Continuous Dimm
Protections: Short circuit, wrong
connections



CBA-124, CBA-124.P, CBA-124.L VEHICLE BACK-UP ALARMS

Sound Level: 97 dB(A) or 87 dB(A)
Sound: 2500 Hz, 10 pulse/min
P type: OFF when park lights ON
L type: Sound Level 82 dB(A) @24VDC
Option: Super Seal Connectors



EBT-302 & EBT-312 BUS INTERCOM

Number of Station: 3
3 Wire System
Locked headset against vibration
Signalling: Acoustical



HFI-101.P & HFI-101 HANDS FREE INTERCOM

Number of Station: 2
Signalling: Acoustical
Noise cancelling microphone
Automatic turn on and turn off
3 wire system

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All products have 24Vdc and 12Vdc types.



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