



NEW SOLUTIONS

MARCH 2024

ABOUT US

Electronics and led
since 1989

Entity è un'azienda internazionale che progetta e realizza schede elettroniche in ambito industriale e lighting, promuovendo i valori distintivi del Made in Italy dal 1989.

Progettazione Hardware e Software, Ricerca e Sviluppo, Prototipazione, accurati Test e Collaudi, fino alla Produzione in serie sono i passaggi fondamentali di un Servizio a 360°, che da sempre la contraddistingue. Queste caratteristiche sono riconosciute e testimoniate anche dalle diverse partnership con aziende prestigiose.

Entity ha messo le proprie radici più di 30 anni fa e da allora, ogni giorno, raccoglie e fa crescere le idee dei suoi clienti, perché il loro successo è anche il proprio.

Entity is an international company that designs and produces electronic boards for industrial use and lighting, promoting the distinctive values of Made in Italy since 1989.

Hardware and Software Design, Research and Development, Prototyping, accurate Testing and Inspection, Production: these are the main steps of the all-encompassing service that has always distinguished the company. These characteristics are confirmed by the Partnerships with some of the most prestigious companies.

Entity put down its roots more than 30 years ago and since then it has been gathering and developing the customers' ideas, as strongly convinced that their success is also its own.



A stylized, handwritten signature in black ink.

STEFANO CAVAGGION / CEO



INDEX

<u>DUAL K DUAL I</u>	4
<u>NEXT GENERATION</u>	5
<u>CASAMBI DEVICES</u>	8
<u>LIGHT CONTROLLERS</u>	12
<u>KSF TECHNOLOGY</u>	14

NEW

DUAL K | DUAL I

KELVIN AND INTENSITY CONTROL WITH THE SAME DRIVER AND WITHOUT CONTROLLERS



PATENT
PENDING

A.A.G.
STUCCHI
Follow your illumination

MULTISYSTEM
evo

WHAT'S NEW

Entity presenta nuovi driver 48V per binari a bassa tensione tipo A.A.G. Stucchi Multisystem EVO che integrano la nuovissima tecnologia **DUAL K** e **DUAL I**.

Ideata dall'azienda con l'obiettivo di offrire maggiori possibilità di controllo dell'impianto di illuminazione, questa rivoluzionaria soluzione mantiene la semplicità ed i costi di un'installazione on/off.

Sfruttando la polarità del driver, DUAL K consente la gestione di due temperature colore (Kelvin) mentre DUAL I permette la gestione di due livelli di intensità luminosa (Intensity): **tutto con lo stesso driver e senza necessità di particolari controller e/o protocolli** (ad esempio no DALI).

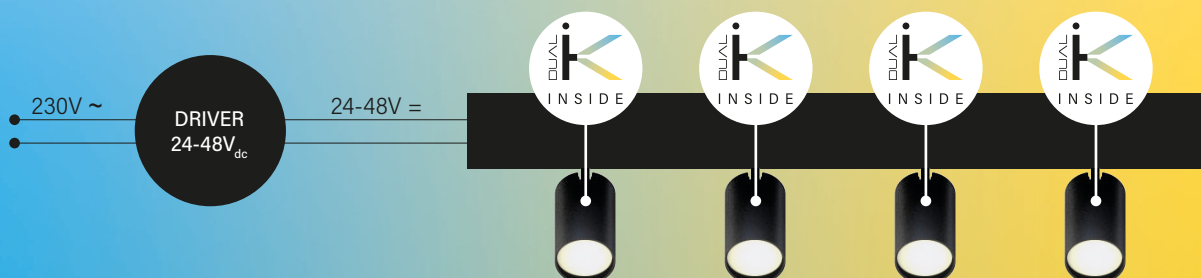
Chiedi maggiori informazioni.

Entity presents new 48V drivers for low-voltage tracks like A.A.G. Stucchi Multisystem EVO that integrate the latest **DUAL K** and **DUAL I** technology.

This revolutionary solution is designed to keep the cost advantage of an ON/OFF installation with the aim of offering more control possibilities for the lighting system.

Changing driver polarity, DUAL K allows the management of two colour temperatures (Kelvin) while DUAL I allows the management of two light intensity levels (Intensity): **all with the same driver and without the need for special controllers and/or protocols** (e.g. no DALI).

Ask for more information.



no DALI

no additional controllers needed

NEXT GENERATION

A NEW RANGE OF 48V DRIVERS FOR
STUCCHI LOW VOLTAGE TRACKS

NEW

NEXT
GENERATION


A.A.G.
STUCCHI
Follow your illumination

micro
when small matters

MULTISYSTEM
evo

WHAT'S NEW

Entity presenta una nuova gamma di driver 48V per binari a bassa tensione Stucchi, in grado di conferire autentico valore aggiunto ai vostri progetti.

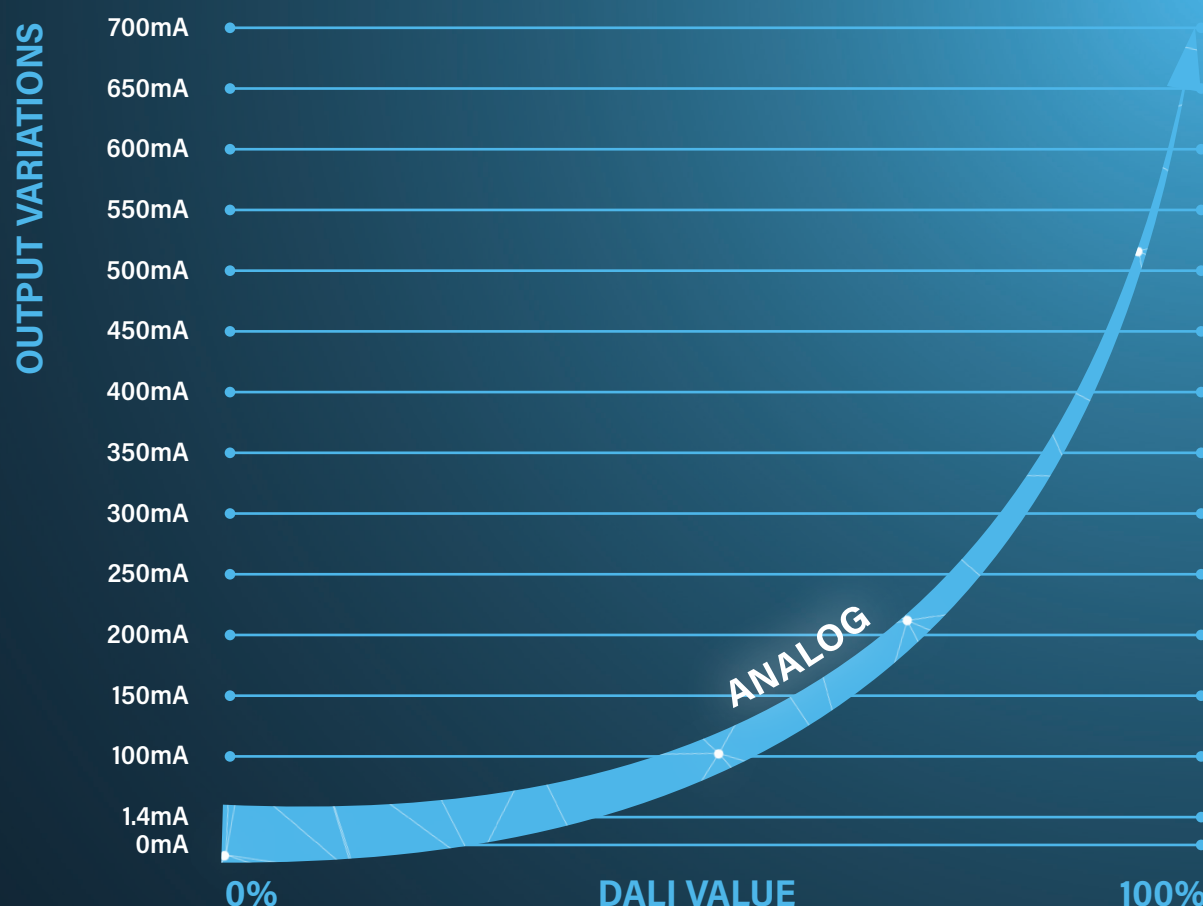
L'integrazione di nuovi componenti che operano in full analogic garantisce - grazie all'eliminazione della componente PWM - la totale eliminazione dei ronzii.

NEXT GENERATION È UNA TECNOLOGIA RIVOLUZIONARIA E ALL'AVANGUARDIA CHE ENTITY PROPONE IN ANTEPRIMA.

Entity presents a new range of 48V drivers for Stucchi low-voltage tracks, capable of bringing genuine added value to your designs.

The integration of new components operating in full analog guarantees - thanks to the elimination of the PWM part - the total elimination of noises.

NEXT GENERATION IS A REVOLUTIONARY AND CUTTING-EDGE TECHNOLOGY THAT ENTITY OFFERS IN PREVIEW.



EN1950 DALI FULL NOISE FREE

Driver DALI con uscita programmabile in corrente costante, funzione Dim to Warm. Full noise-free. Sviluppato per binari a bassa tensione A.A.G. Stucchi (Multisystem - Evolution). | DALI driver with programmable constant current output, Dim to Warm function. Full noise free. Designed for A.A.G. Stucchi's low voltage tracks (Multisystem - Evolution).



NEXT
GENERATION



Compatible with
Dim to Warm COB

Input	24Vdc-48Vdc
Output	100mA-700mA (Dip-switch)
Output channels	1
Output range	1Vdc-43Vdc
Bus	DALI
Dimming	0%-100%
Frequency	analogic
Highlights	protections against: overheating - overloads - voltage spikes - input polarity reversal. Hot swappable - precision of the current output +/-2%
Accessories	-
Dimensions	113,6x8mm
Approval marks	

ORDERING CODE

1200EN1950-0-0
1200EN1950-1-0 without output connector

EN2089 DALI DT6 1CH (D4i on demand) FULL NOISE FREE

Driver DALI con uscita programmabile in corrente costante. Sviluppato per binari a bassa tensione A.A.G. Stucchi (Multisystem - Evolution). | DALI driver with programmable constant current output. Designed for A.A.G. Stucchi's low voltage tracks (Multisystem - Evolution).



NEXT
GENERATION

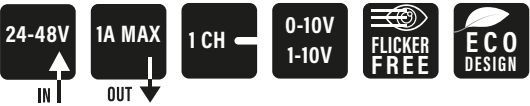
Input	24Vdc-48Vdc
Output	100mA-1000mA (Dip-switch)
Output channels	1
Output range	1Vdc-43Vdc
Command	DALI
Dimming	0%-100%
Frequency	analogic
Highlights	protections against: overheating - overloads - voltage spikes - input polarity reversal. Hot swappable - precision of the current output +/-1,5%
Accessories	cables (optional)
Dimensions	116x13mm
Approval marks	

ORDERING CODE

1200EN2089-0-0-1
1200EN2089-C-0-1 with cables

EN2078 0-10V / 1-10V FULL NOISE FREE

Driver 0-10V o 1-10V con uscita programmabile in corrente costante. Sviluppato per binari a bassa tensione A.A.G. Stucchi (Multisystem - Evolution). | 0-10V or 1-10V driver with programmable constant current output. Designed for A.A.G. Stucchi's low voltage tracks (Multisystem - Evolution).



NEXT
GENERATION

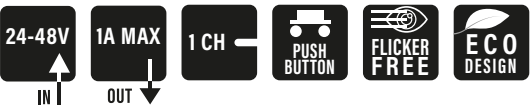
Input	24Vdc-48Vdc
Output	100mA-1000mA (Dip-switch)
Output channels	1
Output range	1Vdc-43Vdc
Bus	0-10V / 1-10V
Dimming	0%-100% / 10%-100%
Frequency	analogic
Highlights	protections against: overheating - overloads - voltage spikes - input polarity reversal. Hot swappable - precision of the current output +/-1,5%
Accessories	cables (optional)
Dimensions	116x13mm
Approval marks	-

ORDERING CODE

1200EN2078-0-0	0-10V
1200EN2078-C-0	0-10V, with cables
1200EN2078-0-1	1-10V
1200EN2078-C-1	1-10V, with cables

EN2078 PUSH BUTTON FULL NOISE FREE

Driver con uscita programmabile in corrente costante e pulsante integrato per accensione/spegnimento/dimmerazione. Sviluppato per binari a bassa tensione A.A.G. Stucchi (Multisystem - Evolution). | Driver with programmable constant current output and integrated push button to switch on/off and dim. Designed for A.A.G. Stucchi's low voltage tracks (Multisystem - Evolution).



NEXT
GENERATION

Input	24Vdc-48Vdc
Output	100mA-1000mA (Dip-switch)
Output channels	1
Output range	1Vdc-43Vdc
Bus	-
Dimming	0%-100%
Frequency	analogic
Highlights	protections against: overheating - overloads - voltage spikes - input polarity reversal. Hot swappable - precision of the current output +/-1,5%
Accessories	cables (optional)
Dimensions	116x13mm
Approval marks	-

ORDERING CODE

1200EN2078-0-2	
1200EN2078-C-2	with cables

NEW

CASAMBI DEVICES

NEW PRODUCTS RELEASED WITH CASAMBI TECHNOLOGY

CASAMBI

WHAT'S NEW

Entity presenta nuove soluzioni sempre più complete e performanti che integrano il modulo Casambi. Disponibili in configurazione per binario o controller.

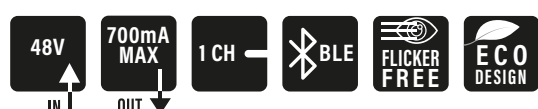
Una tecnologia già presente in una vasta gamma di prodotti, che potete scoprire visitando il nostro sito entityel.com.

Entity introduces new, increasingly comprehensive and high-performing solutions that integrate the Casambi module.

They are available in track or controller configurations. This technology is already available into a wide range of products, which you can explore by visiting our website entityel.com.

EN1813 CASAMBI/SILVAIR

Driver con modulo Casambi o Silvoir integrato ed uscita programmabile in corrente costante | Driver with integrated Casambi or Silvoir module and programmable constant current output.



CASAMBI Technology Partner
SILVAIR



MICRO®

Input	48Vdc
Output	100mA-700mA (Dip-switch)
Output channels	1
Output range	1Vdc-43Vdc
Command	Casambi/Silvoir
Dimming	0%-100%
Frequency	PWM 3kHz+analogic
Highlights	protections against: overheating - overloads - voltage spikes - input polarity reversal. Hot swappable - precision of the current output +/-1,5%
Accessories	-
Dimensions	113,6x8mm
Approval marks	-

ORDERING CODE

1200EN1813-SIL-C70
1200EN1813-CAS-C70

EN2148 CASAMBI - DALI GATEWAY

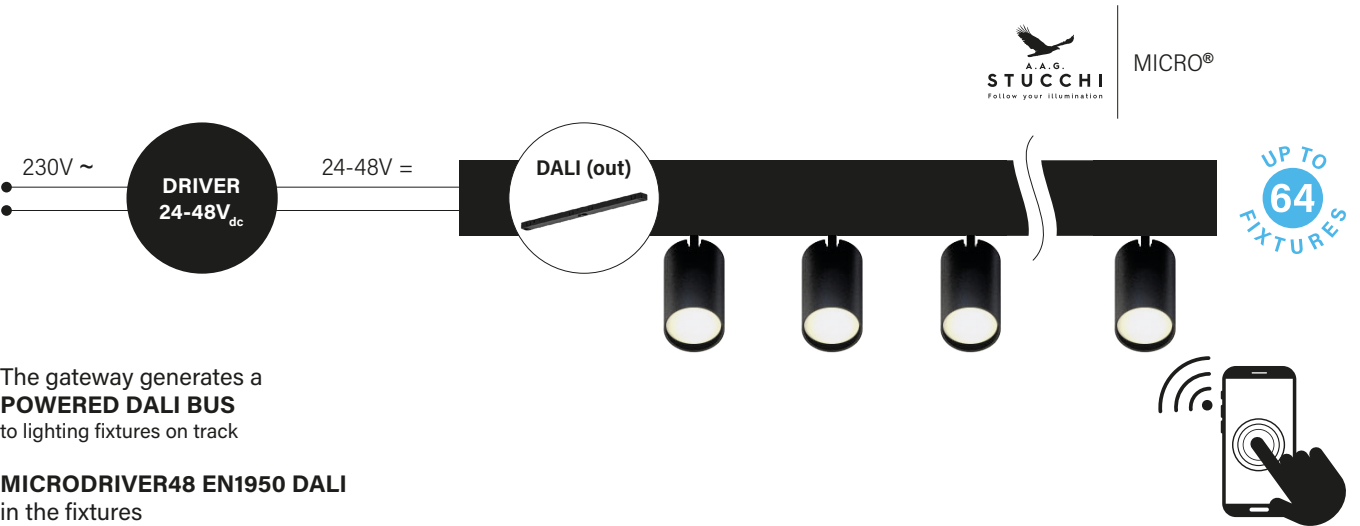
DALI master-controller per il controllo di fino a 64 lampade DALI / 8 gruppi da App CASAMBI (BLE). Sviluppato per binari a bassa tensione A.A.G. Stucchi (Micro). Per la programmazione fare riferimento al datasheet. | DALI master-controller for the control of up to 64 DALI fixtures / 8 groups through CASAMBI App (BLE). Designed for A.A.G. Stucchi's low voltage tracks (Micro). For programming, refer to the datasheet.



CASAMBI

Input	24Vdc-48Vdc
Output	Bus DALI (64 DALI control gears)
Output channels	1
Command	Casambi
Control inputs	-
Power consumption	5W
Highlights	protections against: voltage spikes - bus short circuit. DALI2 compatible
Accessories	Stucchi adapter (white, black)
Dimensions	160x6,9x12,6mm (Stucchi adapter)
Approval marks	-

ORDERING CODE
1200EN2148-CAS-00-BLDAV48 black
1200EN2148-CAS-01-BLDAV48 white

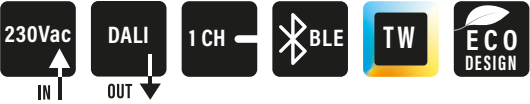


The gateway generates a **POWERED DALI BUS** to lighting fixtures on track

MICRODRIVER48 EN1950 DALI in the fixtures

EN1977 CASAMBI-DALI GATEWAY 230V

Entity presenta EN1977 CASAMBI-DALI GATEWAY 230V, un'innovativa interfaccia CASAMBI per il controllo di lampade DALI su sistemi di illuminazione a binario 230V ONETRACK® di A.A.G Stucchi. Il dispositivo è installato all'interno degli appositi adattatori serie 9999-DRI ONETRACK® dalle dimensioni estremamente ridotte ed a scomparsa. | Entity presents EN1977 CASAMBI-DALI GATEWAY 230V, an innovative CASAMBI interface for the control of DALI fixtures over 230V tracks ONETRACK® by A.A.G Stucchi. The device is installed into the new range of concealed adapters 9999-DRI series for the ONETRACK® family which are very small and disappear completely inside the track.



CASAMBI

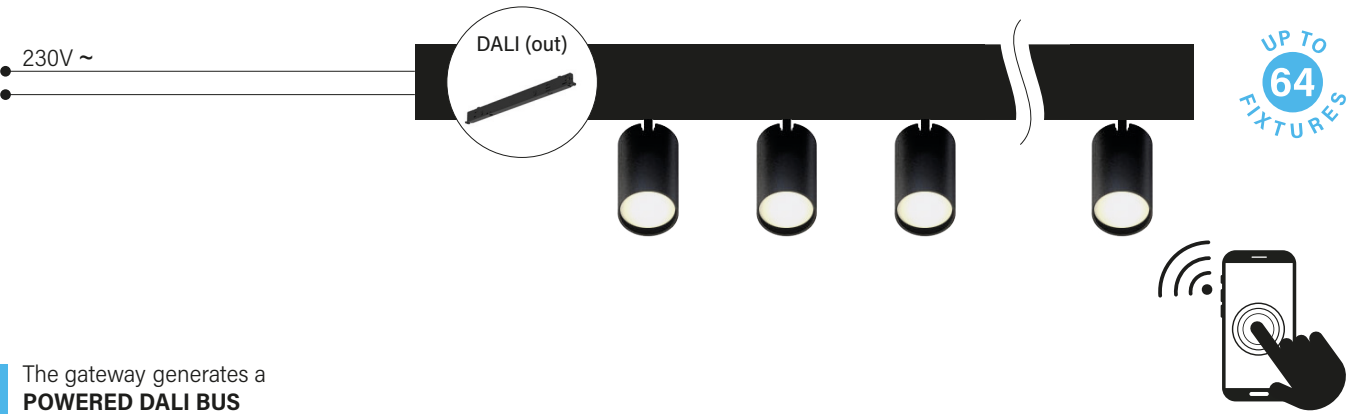
Input	230Vac
Output	Bus DALI 180mA (64 DALI control gears)
Output channels	1
Command	Casambi
Control inputs	-
Power consumption	10W
Highlights	protections against: voltage spikes - bus short circuit. DALI2 compatible
Accessories	A.A.G. Stucchi adapter (9999-DRI series)
Dimensions	363,5x32,9mm (A.A.G. Stucchi adapter)
Approval marks	-

ORDERING CODE

1200EN1977-CAS-00	black
1200EN1977-CAS-01	white



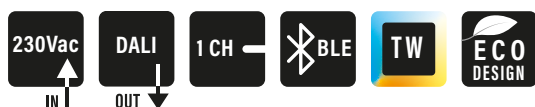
ONETRACK®



The gateway generates a **POWERED DALI BUS** to lighting fixtures on track

EN2088 CASAMBI-DALI GATEWAY 230V

Entity presenta EN2088 CASAMBI-DALI GATEWAY 230V, un'innovativa interfaccia CASAMBI per il controllo di lampade DALI su sistemi di illuminazione a binario 230V: GLOBAL, EUTRAC Onetrack, STUCCHI Onetrack, STUCCHI Onetrack Advance, POWERGEAR. Il dispositivo è inserito all'interno degli appositi adattatori InviTrack di NORDIC POWER CONVERTERS dalle dimensioni estremamente ridotte ed a scomparsa. | Entity presents EN2088 CASAMBI-DALI GATEWAY 230V, an innovative CASAMBI interface for controlling DALI lamps on 230V track lighting systems: GLOBAL, EUTRAC Onetrack, STUCCHI Onetrack, STUCCHI Onetrack Advance, POWERGEAR. The device is fitted inside NORDIC POWER CONVERTERS' extremely small and concealed InviTrack adapters.



CASAMBI

Input	230Vac
Output	Bus DALI (64 DALI control gears)
Output channels	1
Command	Casambi
Control inputs	-
Power consumption	6W
Highlights	protections against: voltage spikes - bus short circuit. DALI2 compatible
Accessories	InviTrack adapter from NORDIC POWER CONVERTERS
Dimensions	350x28,4mm (InviTrack adapter)

ORDERING CODE

1200EN2088-CAS-00 black black



NEW

LIGHT CONTROLLERS

NEW DEVICES TO CONTROL AND EASILY MANAGING LIGHTING SYSTEMS

WHAT'S NEW

Entity presenta nuovi light controllers **aggiornati al protocollo DALI2**:

EN2056, un unico prodotto con 2 uscite per la gestione DT6 e DT8, con un display digitale integrato per la diagnostica di sistema che riduce i costi di mantenimento e aggiornamento dell'impianto.

EN2097, un dispositivo multifunzione con 4 diverse tipologie di ingresso che permettono un facile accoppiamento con l'installazione esistente.

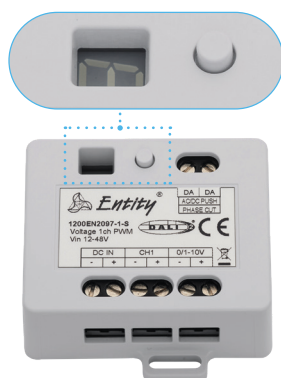
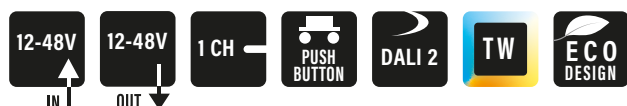
Entity introduces new light controllers **upgraded to DALI2 protocol**:

EN2056, a single product with 2 outputs for DT6 and DT8 management, with an integrated digital display for system diagnostics that reduces system maintenance and improvement costs.

EN2097, a multifunctional device with 4 different input types allowing easy coupling with the existing installation.

EN2097 4 IN 1 DIMMER

Dimmer multifunzione 4 in 1 con ingressi DALI2, AC/DC push, 0/1-10V e taglio di fase. Completo di pulsante e display 7SGM per la visualizzazione e selezione della modalità di funzionamento, segnalazione errori linea DALI e impostazione frequenza. | 4 in 1 multifunction dimmer with DALI2, AC/DC push, 0/1-10V and phase cut inputs. Complete of 7SGM display and button for selection and viewing the operating mode, DALI line error reporting and frequency setting.



Input
Output
Output channels
Bus
Control inputs
Dimming
Frequency
Power consumption
Highlights

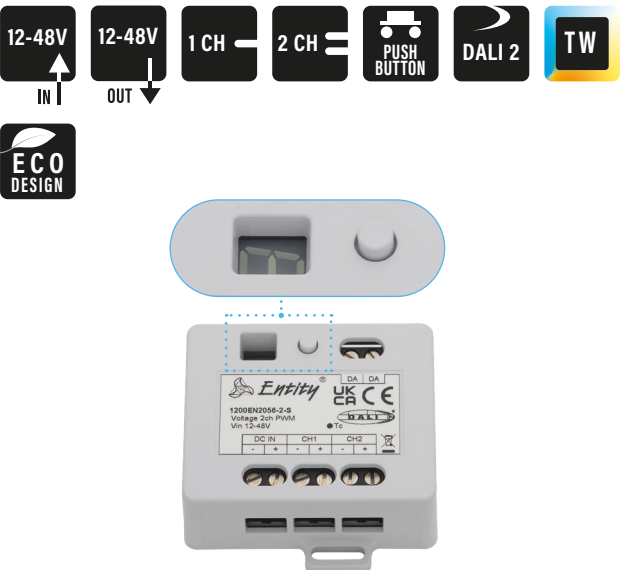
Accessories
Dimensions
Approval marks

12Vdc-48Vdc
12Vdc-48Vdc (PWM dimmable 10A max)
1
DALI
DALI, AC/DC push, 0/1-10V and phase cut
0%-100%
from 200Hz to 2kHz
5W
Display on board - protections against: over-heating - overloads - voltage spikes - input polarity reversal
plastic box
60x45x24mm

ORDERING CODE
1200EN2097-0

EN2056 CONTROLLER DALI - SCREW

Controller DALI per la gestione di una o due uscite DT6 oppure due uscite DT8 (funzione bianco dinamico). Versione con connettori a vite. | DALI controller for the control of one or two DT6 outputs or two DT8 outputs (tunable white function). Screw clamp connectors version.

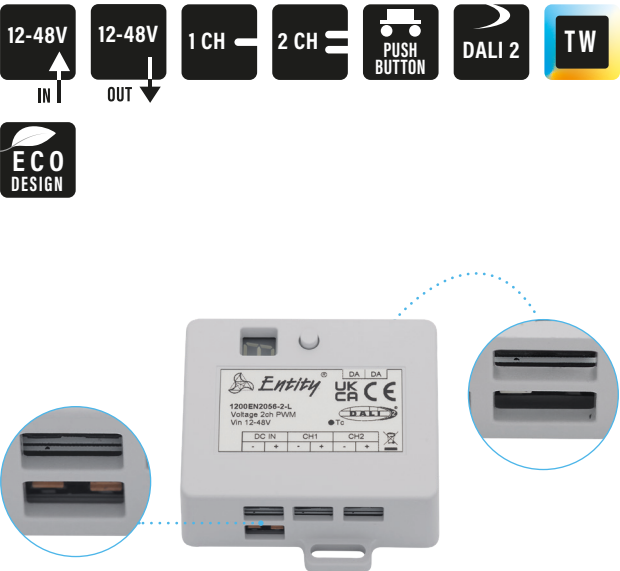


Input	12Vdc-48Vdc
Output	12Vdc-48Vdc (PWM dimmable 5A max)
Output channels	1 or 2
Bus	DALI
Control inputs	push button
Dimming	0%-100%
Frequency	2kHz
Power consumption	5W
Highlights	Display on board - protections against: overheating - overloads - voltage spikes - input polarity reversal
Accessories	plastic box
Dimensions	60x45x24mm
Approval marks	

ORDERING CODE	
1200EN2056-1-S	1 channel
1200EN2056-2-S	2 channels

EN2056 CONTROLLER DALI 2CH - LOOPING

Controller DALI per la gestione di una o due uscite DT6 oppure due uscite DT8 (funzione bianco dinamico). Versione con connettori push in doppi per la linea di alimentazione e DALI ed agevolare la connessione in parallelo di più controller/lampade (looping) | DALI controller for the control of one or two DT6 outputs or two DT8 outputs (tunable white function). Version with dual push in connectors for the power and the DALI line and simplify the connection in parallel of more controllers/lamps.



Input	12Vdc-48Vdc
Output	12Vdc-48Vdc (PWM dimmable 5A max)
Output channels	1 or 2
Bus	DALI
Control inputs	push button
Dimming	0%-100%
Frequency	2kHz
Power consumption	5W
Highlights	Display on board - protections against: overheating - overloads - voltage spikes - input polarity reversal
Accessories	plastic box
Dimensions	60x45x24mm
Approval marks	

ORDERING CODE	
1200EN2056-2-L	

NEW

KSF TECHNOLOGY

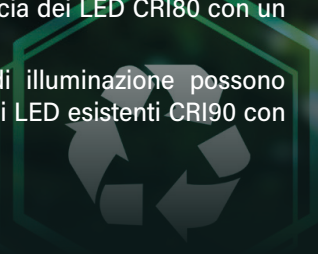
FOR TRADITIONAL LED TECHNOLOGY, HIGHER CRI RESULTS IN A LOWER EFFICACY



WHAT'S NEW

Grazie alle tecnologie PFS o KSF, i maggiori produttori di LED stanno ora implementando il fosforo nitrato rosso a banda larga con il fosforo fluorosilicato di potassio rosso a banda stretta (PFS o KSF), ottenendo l'odierna efficacia dei LED CRI80 con un CRI di 90.

I produttori di sistemi di illuminazione possono semplicemente sostituire i LED esistenti CRI90 con i nuovi LED KSF.



Thanks to PFS or KSF technology, the major LEDs producers are now implementing broadband red nitride phosphor with narrowband red Potassium Fluorosilicate (PFS or KSF) phosphor achieving today's CRI80 LED efficacy with a CRI of 90.

Lighting manufacturers can simply replace their existing LEDs in their lighting products with the new KSF LEDs for CRI90 conversion.

EN1574 140 LED/MT

Strip flessibile 140 LED/mt | Flexible strip 140 LEDs/mt.

24V
IN

CRI>90

2 STEP
MACADAM

MORE
CCT-CRI

EPREL



Input	24Vdc
Power	32,6W/mt - 16,2W/mt
Light output	version 60mA: 4700lm/mt version 30mA: 2300lm/mt
LED type	BRIDGELUX 2835 F90
Nr. of LEDs	140LED/mt
CCT	3000K
CRI	>90
Binning	2 StepMcAdam
Accessories	5mt reels
Dimensions	5004x8mm - cuttable every 50mm

ORDERING CODE	
1200EN1574-930-G-28BXV24	60mA
1200EN1574-930-H-28BXV24	30mA

EN0786 STAR XHP35 PRO9 (HD/HI)

Modulo con 1 LED, disponibile nelle versioni: HD High Density maggiore emissione luminosa, HI High Intensity maggiori candele ed ideale per fasci di emissione stretti | Module with 1 LED, available in the following versions: HD High Density for higher Light output, HI High Intensity for higher candles and ideal for small angle views.

700mA
MAX
IN

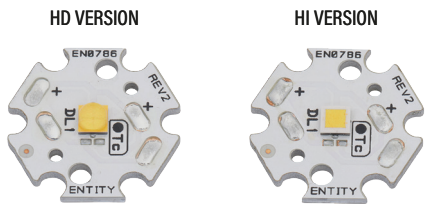
CRI>90

CRI>95
ON DEMAND

2 SDCM
ON DEMAND

MORE
CCT-CRI

EPREL



Input	350mA-500mA-700mA
Power	9W
Light output	900lm max (2700K)-950lm max (3000K)
LED type	CREE™ XHP35.2 PRO9 (HD/HI)
Nr. of LEDs	1
CCT	2700K-3000K
CRI	>90 / >95 on demand
Binning	3 StepMcAdam / 2 StepMcAdam on demand
Accessories	optionals: 250mm cables - lens LEDIL Crystal
Dimensions	21x20mm

ORDERING CODE		
XHP35 HI versions:	1200ENSTAR-XHPP9-I9-BI8	2700K CRI>90
	1200ENSTAR-XHPP9-I9-BI1	3000K CRI>90
	1200ENSTAR-XHPP9-I9-C-BI8	2700K CRI>90, with cables
	1200ENSTAR-XHPP9-I9-C-BI1	3000K CRI>90, with cables
XHP35 HD versions:	1200ENSTAR-XHPP9-D9-BI8	2700K CRI>90
	1200ENSTAR-XHPP9-D9-BI1	3000K CRI>90
	1200ENSTAR-XHPP9-D9-C-BI8	2700K CRI>90, with cables
	1200ENSTAR-XHPP9-D9-C-BI1	3000K CRI>90, with cables



COMING
SOON

NEW CONCEPT 2024

NEW TRACK, NEW DRIVERS!

A.A.G.
STUCCHI
EUTRAC

CORE
SYSTEM

A.A.G. Stucchi lancia CORE5, un nuovo binario ancora più piccolo dei precedenti che apre le porte ad applicazioni - sia a soffitto che ad incasso - sempre più adatte alle necessità moderne.

Entity Elettronica consolida la sua partnership con A.A.G. Stucchi con una nuova gamma di driver, adatti al nuovo CORE5.

A.A.G. Stucchi launches CORE5, a new track even smaller than the previous released suitable for ceiling-mounted and recessed application matching modern needs.

Entity increases its partnership with A.A.G. Stucchi with a new range of drivers dedicated to the new CORE5 track.



ENTITY ELETTRONICA SRL

Headquarter

Via Dei Laghi, 19
36077 Altavilla Vicentina (VI) - Italy
Phone +39 0444 57 44 88
Fax +39 0444 37 20 60
e-mail: info@entityel.it

Registered Office

Via Monte Generoso, 6/A
20155 Milano - Italy

entityel.com

