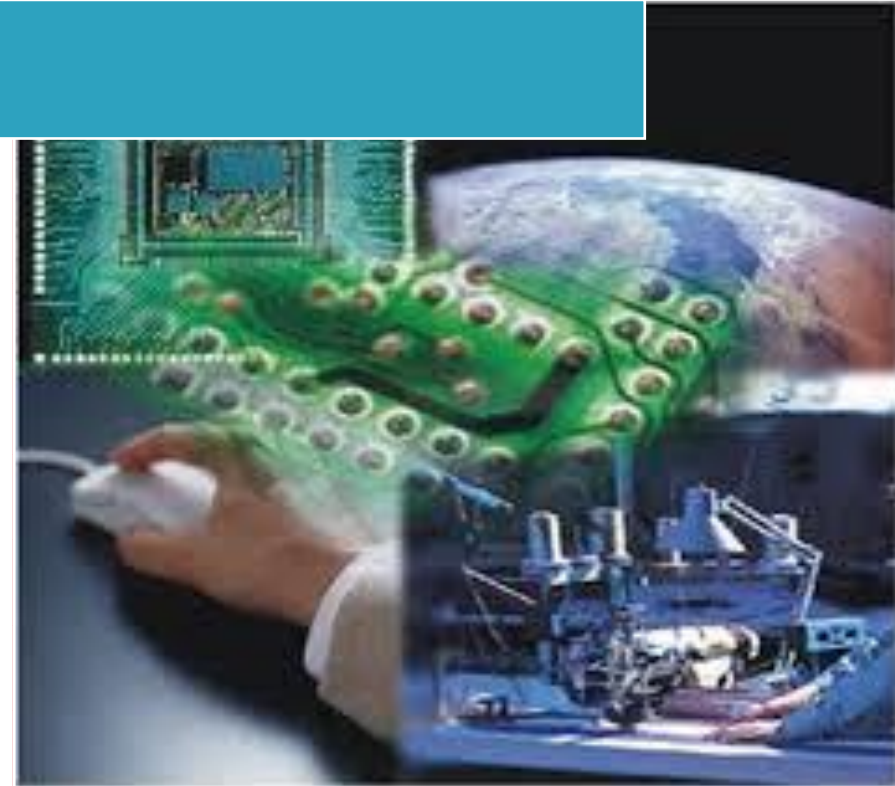


Led Lighting

Ultra Smart Dimming

E' vietata la riproduzione. Tutti i diritti sono riservati. Nessuna parte del presente manuale può essere riprodotta o diffusa con qualsiasi mezzo, fotocopie, microfilm o altro, senza il consenso scritto di Elettronica Tirrito s.r.l.

Copyrights by Elettronica Tirrito s.r.l. All rights reserved. No part of this may be reproduced in any form, by Photostat, microfilm, xerography or any other means, or incorporated into any information retrieval system, electronic or mechanical, without the written permission of the copyright owner. All the inquires should be addressed to Elettronica Tirrito s.r.l.



Progettazione@elettronica-tirrito.it
info@elettronica-tirrito.it

Contents

Description.....	2
Type Configuration.....	3
Reduction in consumption example	Errore. Il segnalibro non è definito.

Elettronica Tirrito s.r.l.

Addr: Via San Leone, 169 94100 Enna (Italy)

Phone:+39(0)935 1865109 +39(0)935 541480 Fax: +39(0)9351866109 Mobile:+39 3384576201

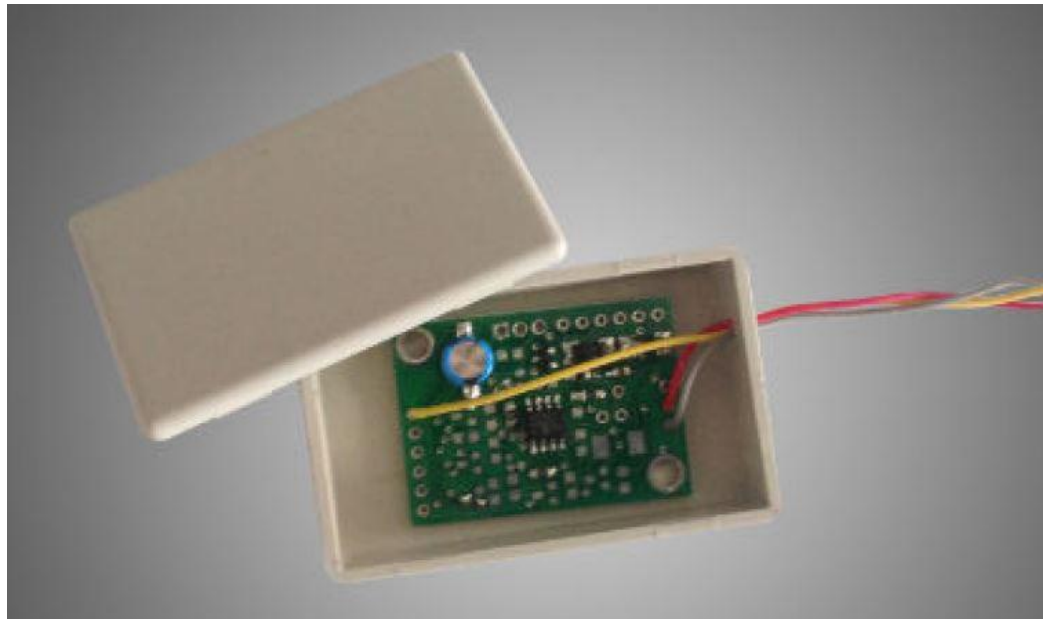
web site: www.elettronica-tirrito.it Email: info@elettronica-tirrito.it P.I.:IT01228470868

CCIAA:69911 Foro competente: Tribunale di Enna

Description

The Ultra Smart Dimming module, Is able to handle the dimming of the LED Street Lighting following the pre-set step thresholds (maximum 5), after agreements; in order to reduce the energetic saving associated with lighting.

The 12VDC plug-in module has a 0-10V output on 0.22mm2 bifilar cable to connect to the dimmable power supplì input.



Elettronica Tirrito s.r.l.

Addr: Via San Leone, 169 94100 Enna (Italy)

Phone: +39(0)935 1865109 +39(0)935 541480 Fax: +39(0)9351866109 Mobile: +39 3384576201

web site: www.elettronica-tirrito.it Email: info@elettronica-tirrito.it P.I.: IT01228470868

CCIAA: 69911 Foro competente: Tribunale di Enna

Type Configuration

Type Configuration, most demanded by our customers, It provides 4 steps of reduction of flux listed below:

- 1st step) after 5 hours from power reduction of 10%;
- 2nd step) after 8 hours from power reduction of 20%;
- 3rd step) after 9 hours from power reduction of 25%;
- 4th step) after 10 hours from power reduction of 35%;

Elettronica Tirrito s.r.l.

Addr: Via San Leone, 169 94100 Enna (Italy)

Phone: +39(0)935 1865109 +39(0)935 541480 Fax: +39(0)9351866109 Mobile: +39 3384576201

web site: www.elettronica-tirrito.it Email: info@elettronica-tirrito.it P.I.: IT01228470868

CCIAA: 69911 Foro competente: Tribunale di Enna

Reduction in consumption example

Below is an illustrative example of reducing fuel consumption.

Considered a 100W LED street lighting turned on from 17:00 to 05:00, consumption for 12 hours of operation is 1.2kW overall.

With UltraSmartDimming module you would have an optimization of consumption because, the amount of required light in certain areas of the city isn't the same for different operating times.

Considering the 5 steps described above, you would have an equal consumption to the sum of the various time intervals:

from 17:00 to 21:59 (5 ore), nominal power 100W, total consumption 500W;

from 22:00 to 00:59 (3 ore), reduction of 10%, nominal power 90W, total consumption 180W;

from 01:00 to 01:59 (1 ore), reduction of 20%, nominal power 80W, total consumption 80W;

from 02:00 to 02:59 (1 ore), reduction of 25%, nominal power 75W, total consumption 75W;

from 02:59 to 05:00 (2 ore), reduction of 35%, nominal power 65W, total consumption 130W;

They add up: $500W+180W+80W+75W+130W = 965W$

Thanks to UltraSmartLight there is a reduction in consumption of about 20%.

Elettronica Tirrito s.r.l.

Addr: Via San Leone, 169 94100 Enna (Italy)

Phone: +39(0)935 1865109 +39(0)935 541480 Fax: +39(0)9351866109 Mobile: +39 3384576201

web site: www.elettronica-tirrito.it Email: info@elettronica-tirrito.it P.I.: IT01228470868

CCIAA:69911 Foro competente: Tribunale di Enna