

DONUT



User's Manual rel 1.1 **GB**

D.T.S. Illuminazione s.r.l. - ITALY
<http://www.dts-lighting.it>



The Lighting Company

Made in Italy

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DESCRIPTION

DONUT is a LED projector for fixed underwater installations.

The unit features a “donut” shape, perfect for installation in fountains.

In fact, this particular hardware configuration allows the nozzle to pass through the central hole of the unit.

Thus, DONUT is able to color the water jet with great uniformity.

Furthermore, DONUT may be fixed to a moving nozzle, in dancing fountain applications.

DONUT is extremely luminous and is capable to light a jet of water to a height of 30 meters.

The unit offers an IP68 protection level and can be installed at a max depth of 2 m.

The unit employs 96 LEDs (24 x Red, 24 x Green, 24 x Blue, 24 x White) and features 4 LED channels (Red / Green / Blue / White).

The unit can be remotely powered and controlled by the dedicated Z40 or DRIVENET 832 POWER external power supply / LED controller.

DONUT units connected to Z40 or DRIVENET 832 POWER can also be remote-controlled using the USITT DMX 512 standard digital communication protocol.

D.T.S. Product Codes:

03.DN001.T10 DONUT RGBW • Narrow lenses

03.DN001.T25 DONUT RGBW • Medium flood lenses

03.DN001.T40 DONUT RGBW • Wide flood lenses

LED technology

96 x RGBW LEDs (24 x Red, 24 x Green, 24 x Blue, 24 x White)

Total lumens output: 14.500 lumens

LEDs average lifespan: 50.000 hours (70% lumen output)

Optical units

3 lenses sets available (Narrow, Medium flood, Wide flood)

Control

Via any DMX lighting console (Z40 or DRIVENET 832 POWER LED controller is needed)

Protection

IP68 protection level against the penetration of solids and liquids

Construction

DONUT is made on bronze and stainless steel

Power supply

Z40 LED Controller Screw terminals outputs

DRIVENET 832 POWER LED Controller Screw terminals outputs

Electronic full-range: AC 90-260V 50-60 Hz

Power consumption

270W Max

Connection

8 poles cable (5 m length)

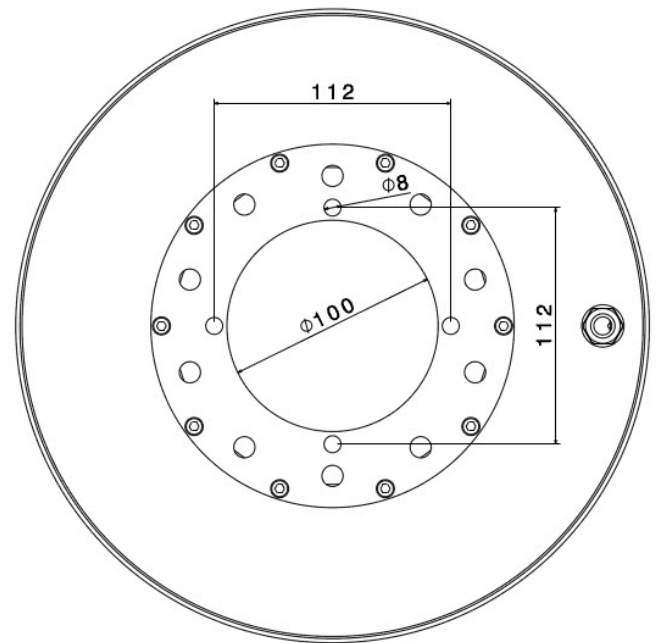
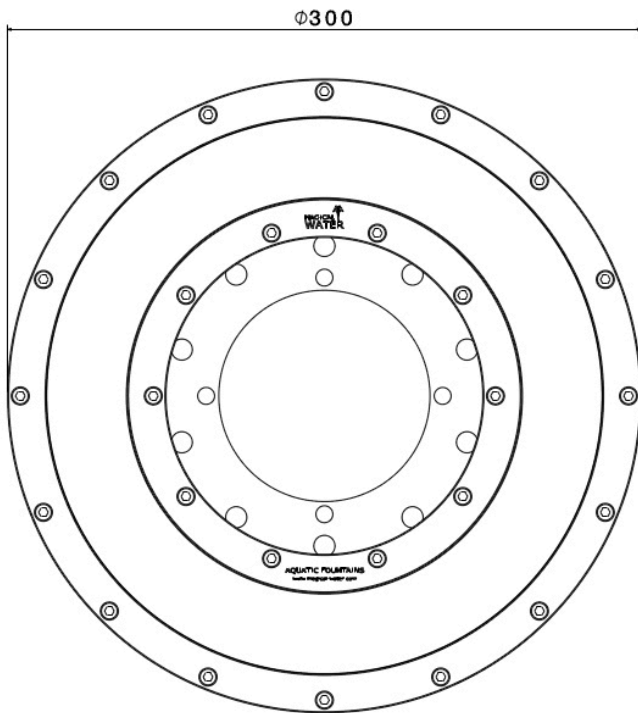
Operating ambient temperature

-10° / +40°

Weight

6,4 Kg

UNIT DIMENSIONS



ACCESSORIES

- Z40 LED Controller Screw terminals output (Code 03.LA.130)
- DRIVENET 832 POWER LED Controller Screw terminals output (Code 03.LA.184)

IMPORTANT SAFETY INFORMATION

Fire prevention:

It is permissible to place the unit on normally flammable surfaces.
Suitable for mounting on normally flammable materials surfaces greater than 200°C with some combustion time lag.

Safety:

The external surface of the unit may exceed 50°C, never handle the unit until at least 5 minutes have elapsed since the unit was turned off.

Never install the unit in an enclosed area lacking sufficient air flow.

The ambient temperature should not exceed 40°C and should not be lower than -10°C.

WIRING DIAGRAMS

DONUT is provided with a 8 poles cable (5 m length).

| CONNECTION | | |
|------------|---------|---------------|
| PIN OUT | LED | WIRES COLOURS |
| PIN 1 | RED + | WHITE |
| PIN 2 | RED - | BROWN |
| PIN 3 | GREEN + | GREEN |
| PIN 4 | GREEN - | YELLOW |
| PIN 5 | BLUE + | GREY |
| PIN 6 | BLUE - | PINK |
| PIN 7 | WHITE + | RED |
| PIN 8 | WHITE - | BLUE |

LEDs OUTPUT

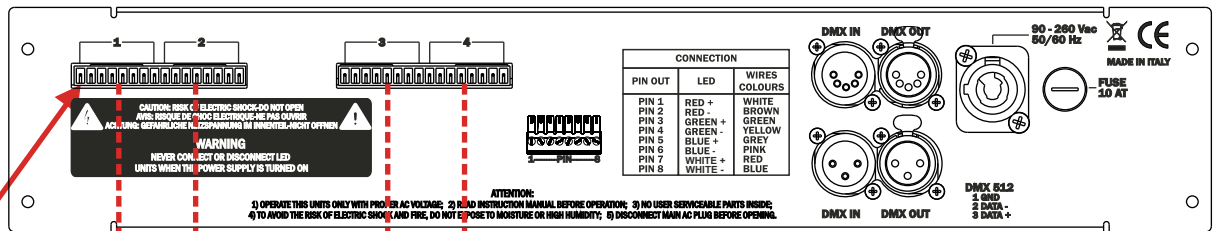
| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| R+ | R- | G+ | G- | B+ | B- | W+ | W- |

8 poles cable (5 m)

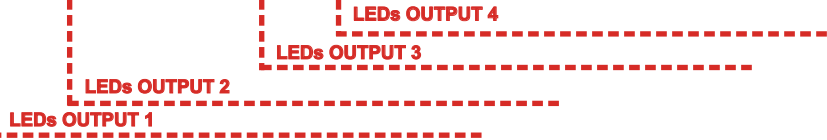
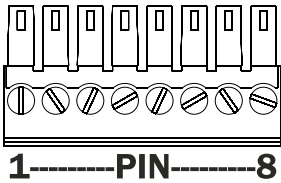
The maximum distance between the power supply and the DONUT unit should not exceed 50 meters.

WIRING CONNECTIONS

Z40 LED Controller Screw terminals outputs (Code 03.LA.130)



8 poles screw terminals



LEDs OUTPUT 1

LEDs OUTPUT 2

| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| R+ | R- | G+ | G- | B+ | B- | W+ | W- |

| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| R+ | R- | G+ | G- | B+ | B- | W+ | W- |

| CONNECTION | | |
|------------|---------|---------------|
| PIN OUT | LED | WIRES COLOURS |
| PIN 1 | RED + | WHITE |
| PIN 2 | RED - | BROWN |
| PIN 3 | GREEN + | GREEN |
| PIN 4 | GREEN - | YELLOW |
| PIN 5 | BLUE + | GREY |
| PIN 6 | BLUE - | PINK |
| PIN 7 | WHITE + | RED |
| PIN 8 | WHITE - | BLUE |

DONUT RGBW

DONUT RGBW



IMPORTANT:

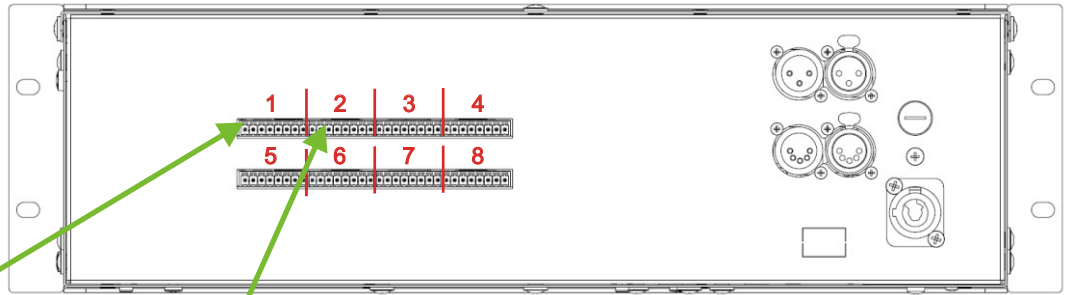
The maximum number of DONUT unit connectable to each Z40 LEDs output is 1 piece.

NEVER CONNECT OR DISCONNECT DONUT UNIT WHEN THE POWER SUPPLY IS TURNED ON.

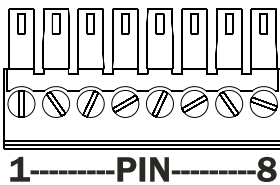
The maximum distance between the Z40 and the DONUT unit should not exceed 50 meters.

WIRING CONNECTIONS

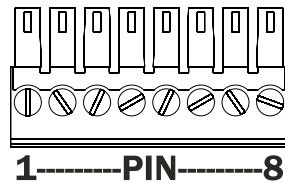
DRIVENET 832 POWER LED Controller Screw terminals outputs (Code 03.LA.184)



8 poles screw terminals



8 poles screw terminals



LEDs OUTPUT 1

| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| R+ | R- | G+ | G- | B+ | B- | W+ | W- |

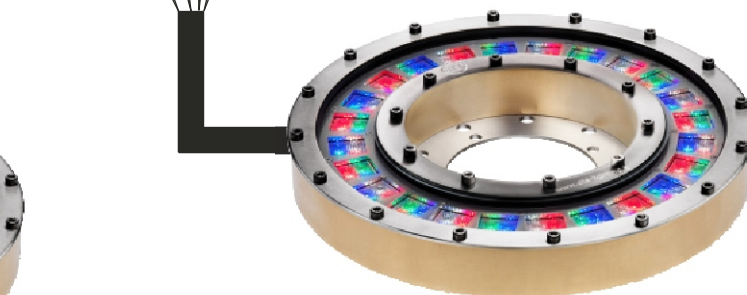
LEDs OUTPUT 2

| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| R+ | R- | G+ | G- | B+ | B- | W+ | W- |

| CONNECTION | | |
|------------|---------|---------------|
| PIN OUT | LED | WIRES COLOURS |
| PIN 1 | RED + | WHITE |
| PIN 2 | RED - | BROWN |
| PIN 3 | GREEN + | GREEN |
| PIN 4 | GREEN - | YELLOW |
| PIN 5 | BLUE + | GREY |
| PIN 6 | BLUE - | PINK |
| PIN 7 | WHITE + | RED |
| PIN 8 | WHITE - | BLUE |



DONUT 1



DONUT 2

IMPORTANT:

The maximum number of DONUT unit connectable to each DRIVENET 832 POWER output is 1 piece.

NEVER CONNECT OR DISCONNECT DONUT UNIT WHEN THE POWER SUPPLY IS TURNED ON.

The maximum distance between the DRIVENET 832 POWER and the DONUT unit should not exceed 50 meters.

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MADE IN ITALY



The Lighting Company

ISO 9001:2008

D.T.S. quality system
is certified to the
ISO 9001:2008 standard



D.T.S. products are designed
and manufactured at the D.T.S.
plants in Italy



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