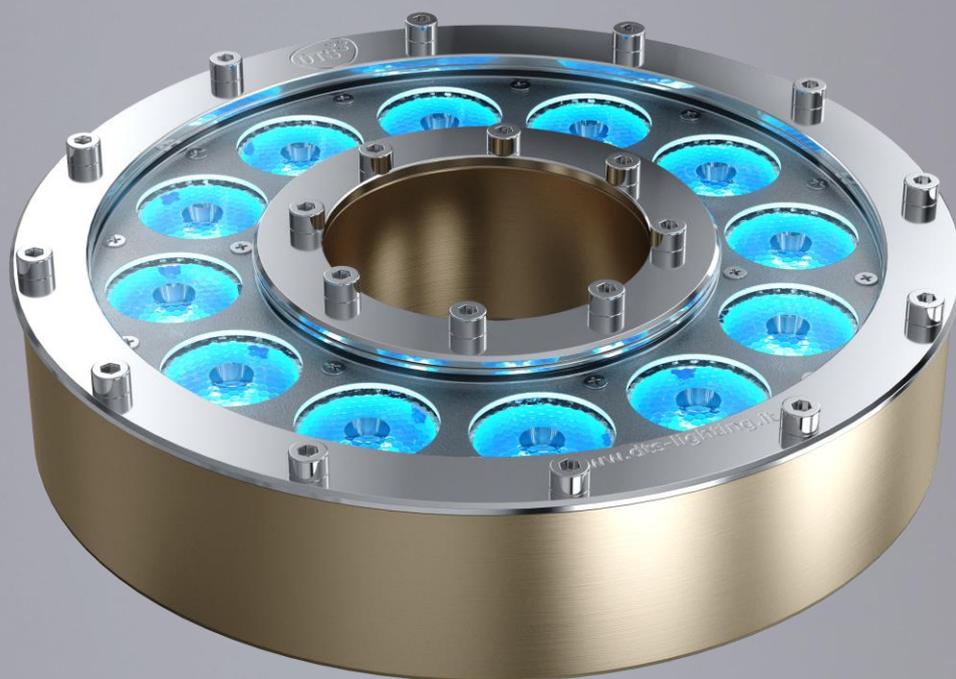


DONUT 12



USER'S MANUAL rel. 1.1 GB

CE

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1- SYMBOLS

Graphic symbols used on this manual:



THIS SYMBOL INDICATES A HOT SURFACE



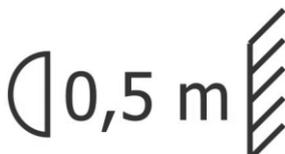
THIS SYMBOL INDICATES ELECTRIC SHOCK RISK



THIS SYMBOL INDICATES GENERAL RISK

t_a 40°C

THIS SYMBOL INDICATES THE MAXIMUM OPERATING AMBIENT TEMPERATURE



THIS SYMBOL INDICATES THE MINIMUM DISTANCE FROM THE ILLUMINATED OBJECTS



THIS SYMBOL MEANS “DO NOT STARE AT THE OPERATING LIGHT SOURCE”



THIS SYMBOL INDICATES PHOTOBIOLOGICAL SAFETY

Risk Group 2



THIS SYMBOL INDICATES THE EUROPEAN COMMUNITY DIRECTIVE 2012/19/EU ON WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

2- GENERAL WARNING

Read the instruction contained in this user manual carefully, as they give important information regarding safety during installation, use and maintenance.

The unit is not for household use and must be installed by a qualified electrician or experienced person.

3- GENERAL WARRANTY CONDITIONS

The unit is guaranteed for 36 months from the date of purchase against manufacturing material defects.

The warranty covers defects in materials and workmanship. The warranty is not applicable where a defect is caused by misuse or unauthorised repair of the product.

Any functional or/and physical modification of the product is not allowed.

4- TECHNICAL FEATURES

Product codes:

03.DN005.F08	DONUT 12 FC Ultra-Narrow lenses
03.DN005.F10	DONUT 12 FC Narrow lenses
03.DN005.F25	DONUT 12 FC Medium lenses
03.DN005.F40	DONUT 12 FC Wide lenses
03.DN007.F08	DONUT 12 FC 24Vdc Ultra-Narrow lenses
03.DN007.F10	DONUT 12 FC 24Vdc Narrow lenses
03.DN007.F25	DONUT 12 FC 24Vdc Medium lenses
03.DN007.F40	DONUT 12 FC 24Vdc Wide lenses

Output

12 Full Color (RGBW) LEDs
 Lumens: 4800 @ 700mA
 LED lifespan: 50.000 hours (70% lumen output)

Optical group

4 lenses sets available: Ultra-Narrow, Narrow, Medium, Wide

Color generation

16 million colors
 Wide palette of pure uniform whites with variable linear color temperature (2700K-8000K)

Power supply

DONUT 12 FC

External PSU:
 DRIVENET 28C DIN @ 48Vdc
 DRIVENET 28 EZ / 416 / 832 (full range 100-240Vac 50-60 Hz)
 DRIVENET 1664 (range 180-240Vac 50-60 Hz)

DONUT 12 FC 24Vdc

External PSU:
 DRIVENET 832 POWER 24Vdc (full range 100-240Vac 50-60 Hz)
**The maximum current for all outputs must be set to 1400mA*

Power consumption: 120W max

Connections

End-stripped 8-pole cable (5 m length)

Operating temperature

-20° / 40°C

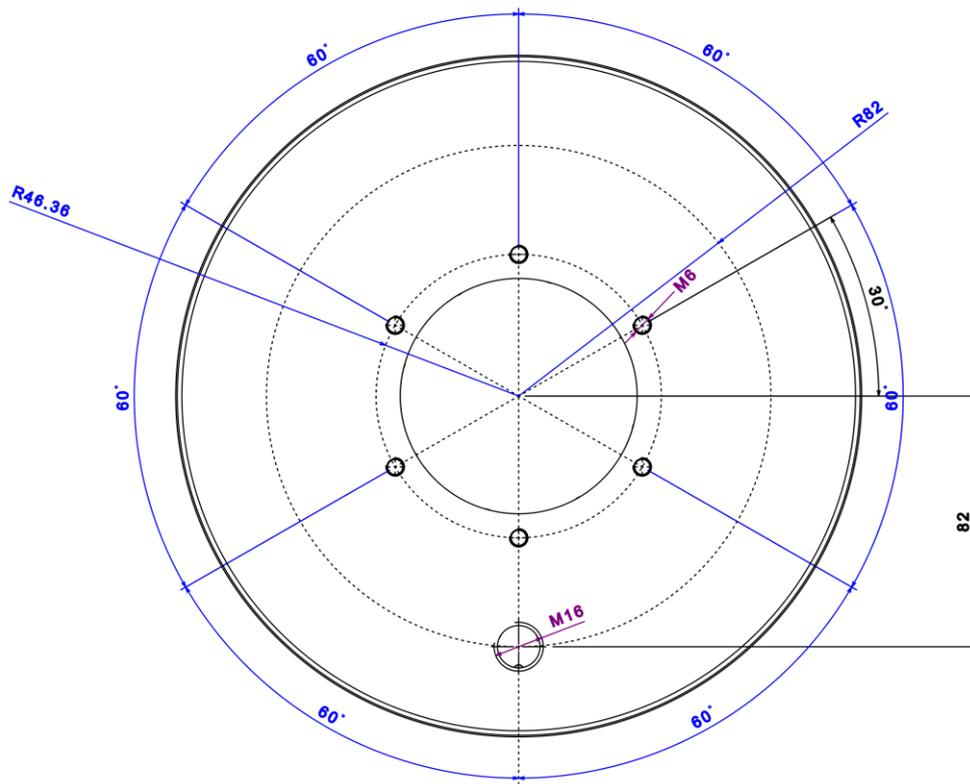
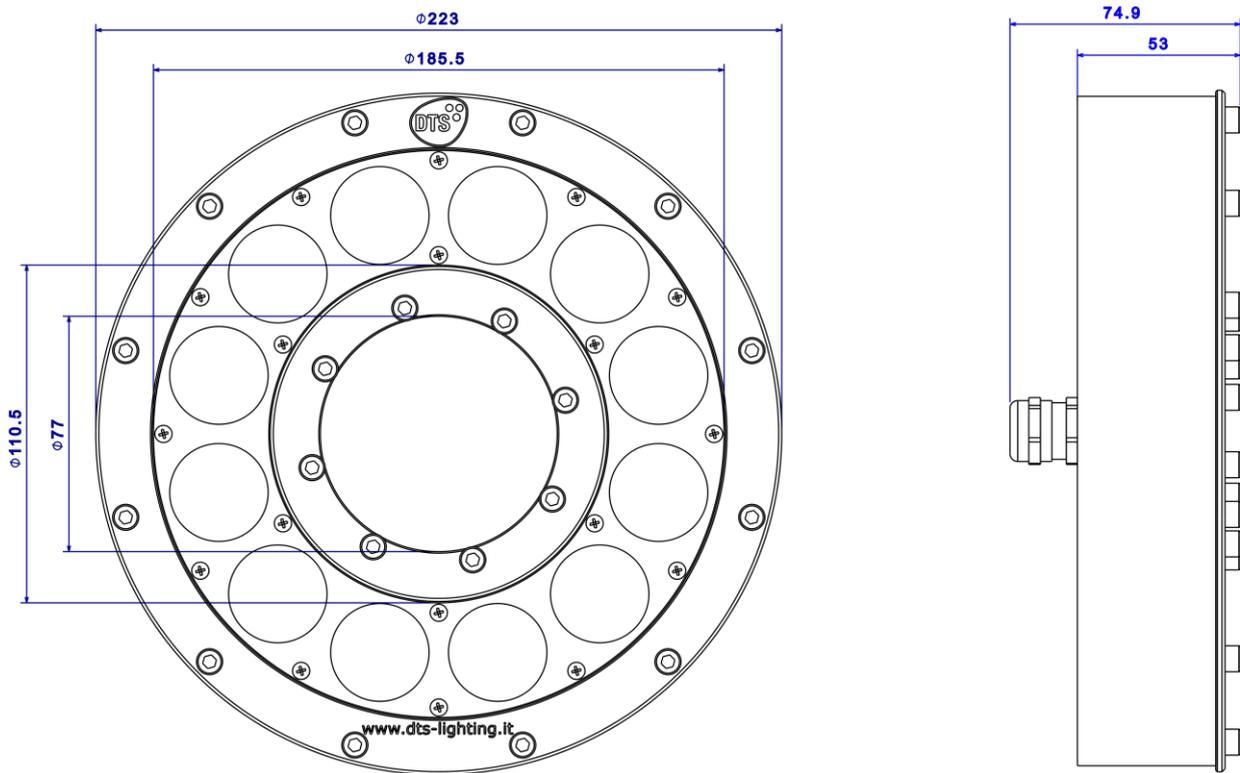
Physical

IP68
 IK protection degree: IK09
 Housing: Bronze / Stainless steel
 Weight: 8.3 Kg

Certifications



DIMENSIONS



5- ACCESSORIES

Optional (on request)

- 8-pole underwater cable (code 0509C123)

6- IMPORTANT SAFETY INFORMATION

6.1 Fire prevention:

Minimum distance from the closest illuminable surface: 0,5 m.



6.2 Prevention of electric shock:



Class II LED product according to standard IEC 60598-1.

6.3 Safety:



Risk group 2 product according to IEC 62471. Risk Group 2



CAUTION. Do not look directly into the light output. May be harmful to the eyes and skin.

Do not stare at the operating light source.



The unit is not for household use and must be installed by a qualified electrician or experienced person.

LEDs are not replaceable.

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. t_a 40°C

Refer to local norms in case of underwater installation. Max immersion depth: 2 m.

6.4 Maintenance:



DONUT is made on Bronze and 316 Stainless Steel.

Bronze:

Bronze is a durable material with strong anti-corrosion properties.

Bronze can be easily scratched or marred with improper care and it oxidizes if not periodically maintained. Routine cleaning and polishing are required in order to maintain the brilliance of the surface.

Always wear clean gloves when handling the unit, direct contact with bare hands may cause a fast oxidation of the handled surface.

Do not expose the unit to air contaminants as heavy exhaust or solvent fumes.

Do not use cleaning or polishing products containing harsh chemicals (ammonia or chlorine) or abrasive chemicals.

Do not use any cleaning towels that are abrasive. Use only microfiber towels. If unsure about the suitability of a product for cleaning bronze, contact DTS.

Maintenance period can vary depending on water quality and environment conditions.

6.4 Maintenance:

316 Stainless Steel:

316 Stainless Steel is a durable material with strong anti-corrosion properties. With proper care and maintenance, it will maintain an optimal appearance over a long service life.

Exposure to high-saline environments, chlorides, abrasive chemicals, or carbon steel will diminish its anti-corrosion properties and increase the risk of damage.

Always wear clean gloves when handling the unit.

Do not weld, cut, drill or grind carbon steel near the unit before installation. Resulting particles will contaminate and rust stainless steel.

Do not clean stainless steel in direct sunlight or excessive temperatures.

Do not use cleaning products containing chlorides (i.e. hydrochloric acid) or other abrasive chemicals. Do not use high-pressure cleaners.

If unsure about the suitability of a product for cleaning stainless steel, contact DTS.

Routine cleaning with soap and water is usually sufficient to maintain the corrosion resistance and appearance of 316 Stainless Steel. Use a soft nylon brush to remove any accumulated dirt.

Wash with mild soap or detergent, then rinse in clean water and wipe dry with a soft cloth.

If signs of corrosion appear, clean immediately. To avoid progression of damage, identify and address problems as early as possible.

Heavy damage includes structural compromises such as visible dents, cracks, breaks and rust that can undermine the integrity of a product. Heavily damaged products should be removed from service until a repair or replacement can be made. To prevent worsening of damage, any significant rust should be removed as soon as possible.

If any parts are broken or missing, contact DTS to determine the availability of replacements. Replace any screw only by 316 stainless steel screws. To replace cable or gaskets, contact DTS. Maintenance period can vary depending on water quality and environment conditions.



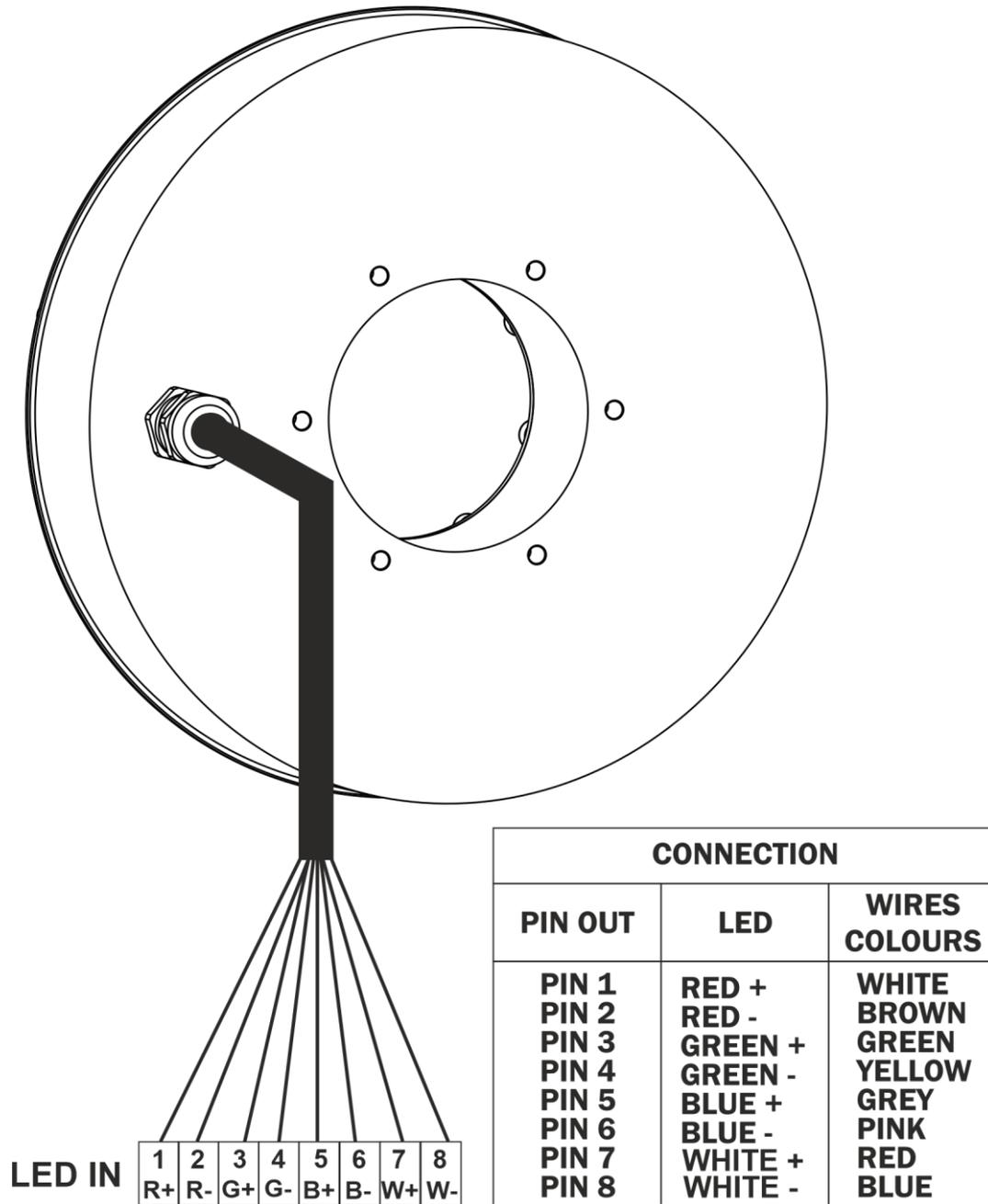
6.5 Waste Electrical and Electronic Equipment (WEEE) directive:

The machine, accessories and packaging should be sorted for environmental-friendly recycling.

For EC countries: according to the European Directive 2012/19/EU for Waste Electrical and Electronic Equipment and its implementation into national right, luminaires that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

7- CONNECTIONS

DONUT 12 FC and DONUT 12 FC 24Vdc is provided with an end-stripped 8-pole cable (5 m length).



The maximum distance between DRIVENET PSU and DONUT 12 FC unit should not exceed 100 meters.

The maximum distance between DRIVENET 832 POWER 24Vdc PSU and DONUT 12 FC 24Vdc unit should not exceed 50 meters.

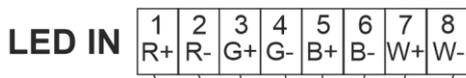
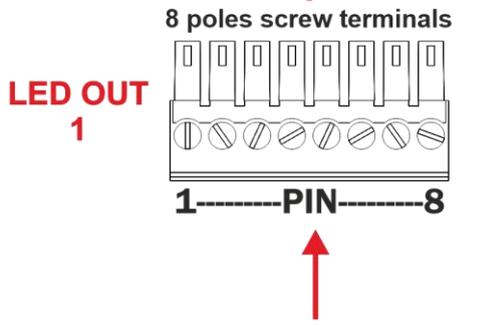
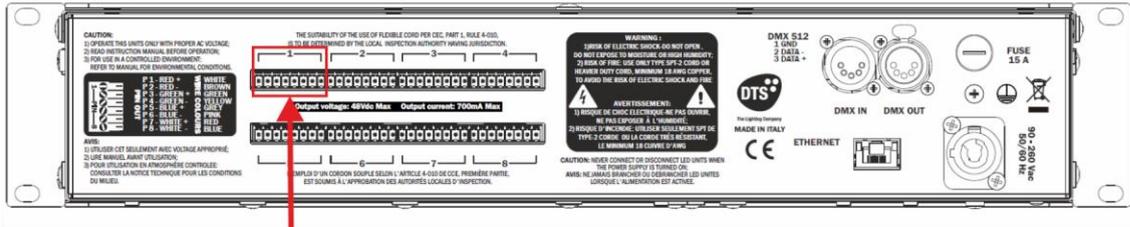
8- CONNECTION DIAGRAMS

DONUT 12 FC

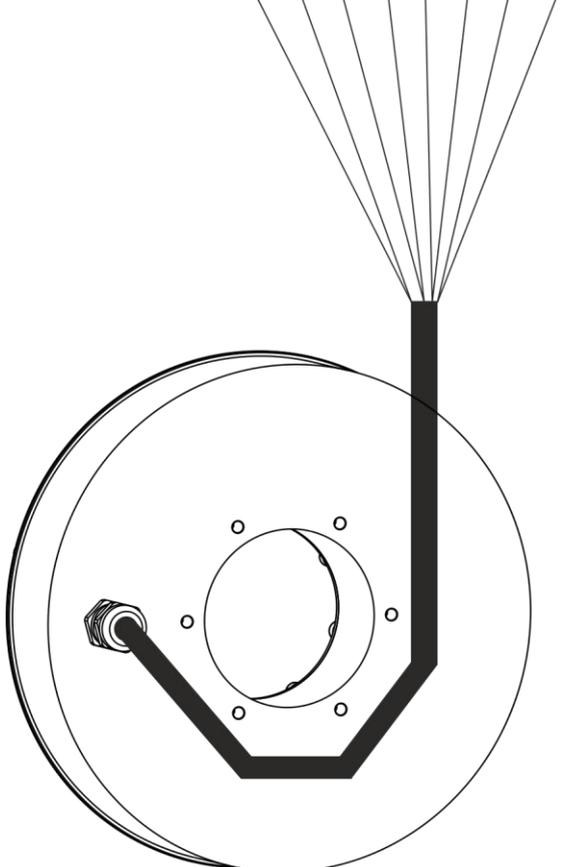
The maximum number of DONUT 12 FC unit connectable to each output of the DRIVENET 28 EZ / 416 / 832 or 1664 PSU is 1 piece.

The maximum distance between DRIVENET PSU and DONUT 12 FC unit should not exceed 100 meters.

DRIVENET 832 (code 03.LA.177)



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



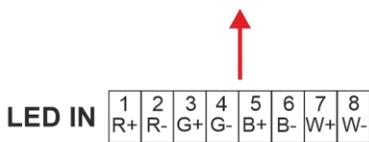
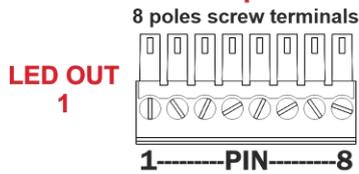
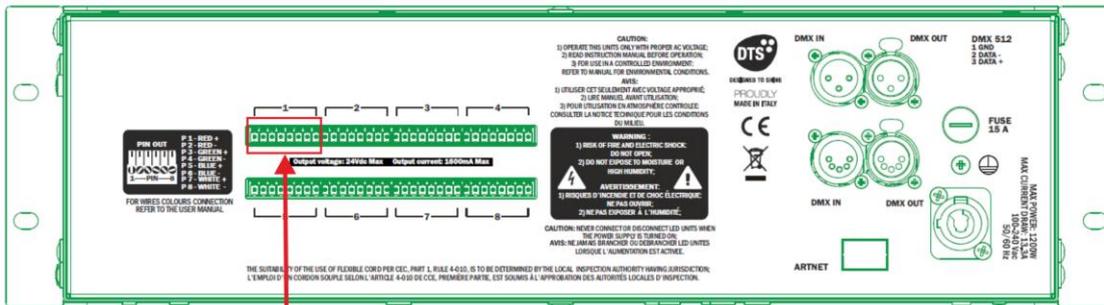
8- CONNECTION DIAGRAMS

DONUT 12 FC 24Vdc

The maximum number of DONUT 12 FC 24Vdc unit connectable to each output of the DRIVENET 832 POWER 24Vdc PSU is 1 piece.

The maximum distance between DRIVENET 832 POWER 24Vdc PSU and DONUT 12 FC 24Vdc unit should not exceed 50 meters.

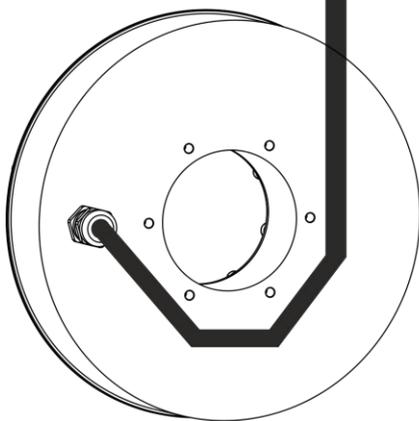
DRIVENET 832 POWER 24Vdc PSU (code 03.LA.184.V2)



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



THE MAXIMUM CURRENT FOR ALL OUTPUT CHANNELS OF THE DRIVENET 832 POWER 24Vdc PSU MUST BE SET TO 1400mA IN THE DISPLAY MENU "LED CURRENTS".



ISO 9001:2015

DTS quality system is
certified to the ISO
9001:2015 standard



05171342



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