

960 - Hydro HP - AC/DC driver

Code: 164751-00



Disano Group's vast technological experience in the design and industrial production of lighting fixtures has led to the development of its new range of watertight LED fixtures. New Hydro LED is characterised by a modern design that blends well into any setting.

The main innovation is the standard inclusion of a driver designed for AC/DC operation, making the Hydro 960 immediately compatible with centralized emergency systems. Another key strength is the quick connection system, designed to drastically reduce installation time and costs. Thanks to the connector, the connection to the electrical system is simple, fast, and safe.



GENERAL INFORMATION

|         |                               |
|---------|-------------------------------|
| Article | 960 - Hydro HP - AC/DC driver |
| Code    | 164751-00                     |

DIMENSIONS AND WEIGHT

|             |         |
|-------------|---------|
| Length (mm) | 1260 mm |
| Width (mm)  | 120 mm  |
| Height (mm) | 102 mm  |
| Weight (Kg) | 1.9 kg  |

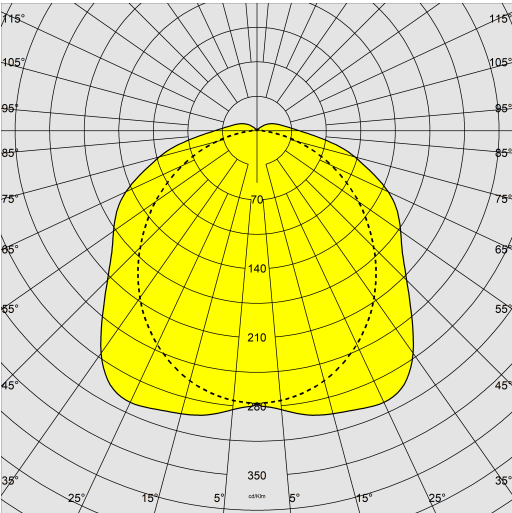
ELECTRICAL CHARACTERISTICS AND CONTROLS

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage type       | AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Min Voltage (V)    | 168 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Max Voltage (V)    | 264 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Min Frequency (Hz) | 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Max Frequency (Hz) | 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Frequency (Hz)     | 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Wiring name        | CLD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Wiring             | <p>AC/DC driver</p> <p>The device can operate correctly with power supplies within specific voltage ranges:</p> <ul style="list-style-type: none"><li>• 198 ÷ 264 V AC (alternating current): this range includes the standard European 230 V AC mains with its tolerances.</li><li>• 168 ÷ 275 V DC (direct current): this is particularly useful for connection to centralized emergency systems, which often power lighting fixtures with direct current when the mains supply fails.</li></ul> <p>The presence of the AC/DC driver allows the device to be powered both from the normal mains supply (230 V AC) and from a DC emergency line (168–275 V DC), without the need for additional devices or dedicated versions.</p> |
| Power factor       | ≥0.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Insulation class   | Class I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Controllability    | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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PHOTOMETRIC DATA



|                              |                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------|
| Lighting source              | LED                                                                                  |
| CRI                          | >80                                                                                  |
| Luminous flux (output) (lm)  | 3760 lm                                                                              |
| Power absorption (total) (W) | 18 W                                                                                 |
| CCT                          | 4000 K                                                                               |
| Luminous efficacy (lm/W)     | 209 lm/W                                                                             |
| Low Flicker                  | luminaire with very low flicker: evenly distributed light for greater visual safety. |
| Colour consistency           | SDCM3                                                                                |
| LED flux maintenance         | 100000 hr, L 90, B 10                                                                |

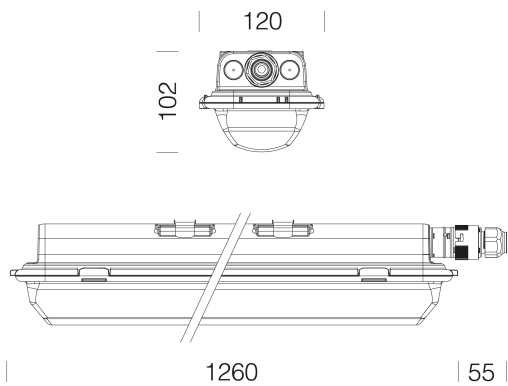
MECHANICAL CHARACTERISTICS

|                               |        |
|-------------------------------|--------|
| Impact resistance rating (IK) | IK10   |
| IP                            | 66     |
| Ambient temperature - min     | -30 °C |
| Ambient temperature - max     | 40 °C  |

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MATERIALS AND COLOURS



DOWNLOAD

MOUNTS

AssemblyInstructions hydro-thema 02-26.pdf

DESIGNS

TechnicalDrawing 960 26.dxf



|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Housing   | injection-moulded, made of grey RAL 7035 polycarbonate, shatterproof, UV-stabilised, with high mechanical strength thanks to the structure reinforced by internal ribs.                                                                                                                                                                                                                                                                                                                                              |
| Optics    | galvanised steel pre-painted in oven with white polyester resin, UV-stabilised. Fastened to the body with a quick coupling by means of a device machined directly on the body.                                                                                                                                                                                                                                                                                                                                       |
| Diffuser  | injection-moulded in polycarbonate with internal grooves for greater light control, self-extinguishing V2, UV-stabilised, smooth outer finish to enable easy cleaning for maximum light efficiency.                                                                                                                                                                                                                                                                                                                  |
| Colour    | Grey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Equipment | <ul style="list-style-type: none"><li>- sealing gasket in eco-friendly, anti-aging expanded polyurethane foam</li><li>- ceiling mounting brackets and suspension hook in stainless steel</li><li>- quick connector</li><li>- clamp and safety screws in stainless steel</li><li>- As standard, the fixture is equipped with an AC/DC driver, powered by a centralised emergency system, which is not incorporated into the fixture</li><li>- AC power supply: 198/264V</li><li>- DC power supply: 168/275V</li></ul> |

ATTENTION !

Do not install on surfaces subject to strong vibrations, outdoors on hanging cables, or on walls under metallic grates, or on poles, and in any case, never expose the fixture to direct sunlight.  
Check the compatibility between the material constituting the product and the space where it will be installed.  
We recommend the use of fixtures made of steel with direct exposure to sunlight.

EMERGENCY LIGHTING

|                             |             |
|-----------------------------|-------------|
| Emergency power supply type | Not present |
| Type of emergency           | S.A.        |

STANDARDS AND COMPLIANCE

|                              |                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Photobiological safety class | RG0                                                                                                                                                                                                                                                                                                                                                             |
| Markings and tests           | CE, ENEC                                                                                                                                                                                                                                                                                                                                                        |
| Reference standards          | EN60598-1. EN60598-2-22. With degree of protection according to EN60529. The lighting fixture meets all IFS and BRC requirements, and the regulation of the HACCP Directive regarding lighting systems installed in food processing plants.<br>The 'D' brand ceiling light is recommended for installation in environments with suspended dust or settled dust. |
| Laboratory Tests             | <ul style="list-style-type: none"><li>- the UL 94 Standard is considered a reference for rating the ignition characteristics of plastic materials. The watertight fixtures are made of V2 class material that self-extinguishes in 25 seconds.</li><li>- passes the Glow Wire Test at 850 °C.</li></ul>                                                         |
| Energy Label                 | B                                                                                                                                                                                                                                                                                                                                                               |

GEAR

|              |                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensors      |                                                                                                                                                                                                                                                                                                                                                                                                           |
| Upon request | <ul style="list-style-type: none"><li>- narrow beam, subcode -22</li><li>- continuous row with connector on both ends, subcode -0072</li><li>- radar sensor for ON-OFF watertight fixtures, subcode -19 (remote control cod. 81418618 to be purchased separately, that allows changing the parameters even after installation is complete and without the need to directly access the fixture).</li></ul> |

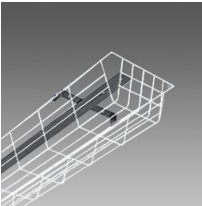
WARRANTY

|                      |      |
|----------------------|------|
| After sales warranty | 5 yr |
|----------------------|------|

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**975 Anti-impact grid**



**6036 Universal connection**



**978 Wall bracket**