CANTY

PROCESS TECHNOLOGY

LED SANITARY LIGHTING SYSTEM
Stainless Steel NEMA 4X Construction

5,000 + HOURS
LED LIFE, HIGH INTENSITY, UNIFORM WHITE LIGHT OUTPUT

FEATURES

- Cold Light - Adds No Heat To Process
- Fused Glass - Safe Process Light
- Compact 1" - 4" Tri-Clamp® Design
- Fiber Optic Bundle Mount Options
- Integral or Remote Momentary Switch
- LED, low maintenance
- 316L S.S. Design Can Be C.I.P.
- Pressures Through 3,000 PSI available
- Process Temperatures From -320° F (-195°C) to 650° F (340°C) available
- Stainless Steel or Hastelloy® Wetted Materials. Consult Factory for Additional Options.
- Long service life
- Fiber Optic Technology

HOW IT WORKS

The LED lighting system is designed to illuminate bio-reactors, fermentors, and sanitary vessels. The LED light is a fused glass light, which provides a high intensity, cold light source, to allow the process to be viewed under a true white light (5000° K color temperature). The cold light ensures that no heat is added to the process, which avoids unaccounted for heat sources in the reaction, while also ensuring there is no product bake-on. The LED lighting package provides a compact, cost effective lighting system, to meet all of your sanitary process needs. Each Canty LED light uses a high pressure, high temperature, fused glass hermetic seal, to completely isolate the light source from the process. The LED light can mate with a variety of couplings, including Tri-Clamp®, Tuchenhagen®, NA-Connect® or Sanitary.

APPLICATIONS

- Biotech Reactors, Fermentors & Sterilizers
- Sterile Process Tanks
- Aseptic Tanks
- Sanitary Areas & Glove Boxes
- Portable Tanks
- Freeze Dryers
- Many, many more

SPECIFICATIONS

Power Req:	24V DC, 120VAC, 230VAC
Housings:	NEMA 4X Sanitary, IP 66, 316L S.S. Construction
Wetted Materials:	316L S.S., Hastelloy® C-276, Hastelloy® C-22
Power supply:	Internal or Remote
Approx. Size:	3" [76mm] diameter x 8" [203mm] long
Weight:	4.5 lb [2kg]

STANDARD LIGHT SOURCE

All models feature 316L S.S. construction housing. A high output LED provides bright white light to illuminate the application. A momentary switch can be provided either integral to the light, or with a 42" switch cord. An alternative option is a light system supplied without a switch, with the on/off control in the user's scope. In all cases, a 25' (7.6 m) input power cable with cord grip is supplied, and can be wired to the appropriate power source.

MOUNTING CONNECTION

Available in:

- 1" - 4" Tri-Clamp®, NA-Connect® Process Connection Options
- Sight Glass Mount - 6" Rigid or 24"+ Flexible Fiber Optic Bundle
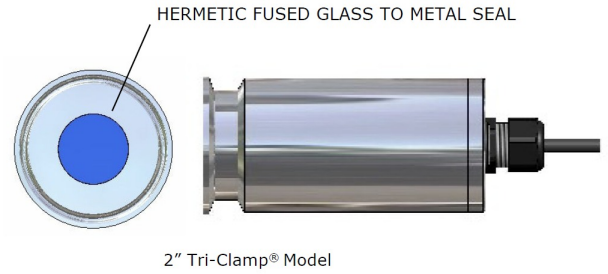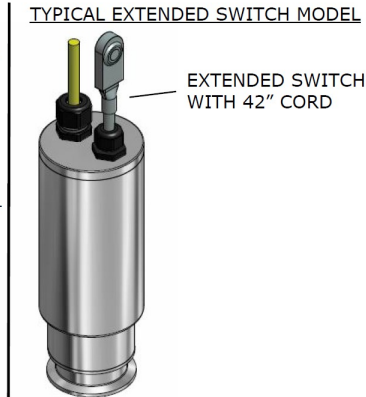- Consult Factory for Additional Options

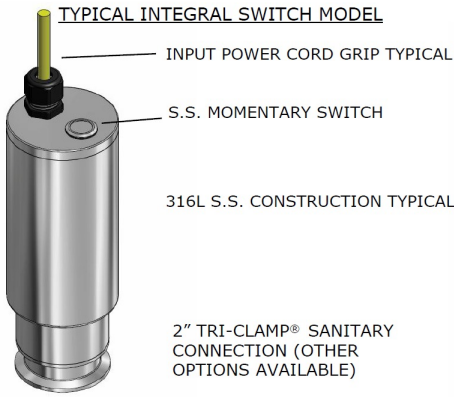All registered trademarks are the property of their respective owners.

CANTY

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TYPICAL INTEGRAL SWITCH MODEL

- INPUT POWER CORD GRIP TYPICAL
- S.S. MOMENTARY SWITCH
- 316L S.S. CONSTRUCTION TYPICAL
- 2" TRI-CLAMP® SANITARY CONNECTION (OTHER OPTIONS AVAILABLE)

TYPICAL EXTENDED SWITCH MODEL

- EXTENDED SWITCH WITH 42" CORD

HERMETIC FUSED GLASS TO METAL SEAL

2" Tri-Clamp® Model

Direct Mount Ordering Information
HHAS4F00-LED

EXAMPLE:

SWITCH OPTIONS

INTEGRAL MOMENTARY SWITCH (standard includes timer):
S - 24 Volt DC input, 1 amp
H - 120 Volt AC input, .25 amp
R - 230 Volt AC input, .25 amp

EXTENDED MOMENTARY SWITCH - 42" CORD (no timer):
G - 24 Volt DC input, 1 amp
P - 120 Volt AC input, .25 amp

NO SWITCH (standard includes timer):
9 - 24 Volt DC input, 1 amp
C - 120 Volt AC input, .25 amp
B - 230 Volt AC input, .25 amp

POWER SUPPLY OPTIONS

A - Integral. User supplies voltage specified above direct to light per model number selected.

†Consult factory for other options.

TIMER OPTIONS

0 - Includes timer (standard, except on model prefixes "HG" and "HP")
2 - No timer (for momentary use)

MOUNTING CONNECTION

D - 1"/1.5" NA-Connect® Sanitary Connection
E - 1"/1.5" Tri-Clamp® Sanitary Connection
F - 2" Tri-Clamp®/NA-Connect® Sanitary Connection
G - 3" Tri-Clamp®/NA-Connect® Sanitary Connection
H - 4" Tri-Clamp®/NA-Connect® Sanitary Connection

WETTED MATERIAL

S - 316L S.S.*
D - Hastelloy® C-276 or equal*
E - Hastelloy® C-22® or equal*
U - Hastelloy® C-276 or equal, 20 Ra Electropolish finish
20 Ra mechanical finish standard. Additional finishes available.

Fiber Mount Ordering Information
HHA10S0-LED

SWITCH OPTIONS

INTEGRAL MOMENTARY SWITCH (standard includes timer):
S - 24 Volt DC input, 1 amp
H - 120 Volt AC input, .25 amp
R - 230 Volt AC input, .25 amp

EXTENDED MOMENTARY SWITCH - 42" CORD (no timer):
G - 24 Volt DC input, 1 amp
P - 120 Volt AC input, .25 amp

NO SWITCH (standard includes timer):
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BUNDLE SHEATHING MATERIAL

S - 304 SS Sheathing

BUNDLE LENGTH

0 - 6" Rigid Bundle
1 - 24" Flex Bundle
2 - 36" Flex Bundle
3 - 48" Flex Bundle
4 - 60" Flex Bundle
5 - 72" Flex Bundle

BUNDLE SELECTION

1 - Single Leg Bundle, 400°F (205°C) Max at Tip

6" Rigid Bundle Model

*Canty reserves the right to upgrade from Stainless Steel to the Hastelloy® C family of materials at no additional charge

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