

Data Sheet

J. M. CANTY HYL 80

Series Led Process Lighting Systems



Supplied by

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PROCESS TECHNOLOGY

HYL 80 SERIES LED PROCESS LIGHTING SYSTEMS



HOW IT WORKS

The HYL 80 LED lights are designed to illuminate pressurized, irradiated or isolated areas. The HYL lighting package provides a compact, cost effective lighting system. Our patented design allows for an intense beam of light to cross the pressure/process boundary. Once across, the beam is diffused to provide a conical light output of bright, even illumination. The HYL light can mate with a variety of couplings, including flanged, sanitary and NPT connections.

FEATURES

- Pressure rating from full vacuum to 10,000 PSI available. Consult factory.
- NEMA 4, IP 66 ratings available.
- Brighter than former 80W Halogen lights
- Low power consumption, 16-20W
- Explosion proof Class I, Div. 1, Groups B, C and D, Class II, Div. 1, Groups E, F and G, and NEMA 4 models.
- Flame proof Ex II 2 GD, Eex d IIC T6 and IP 66 models.
- Maintenance-free, high output LED.
- All wiring and maintenance external.

APPLICATIONS

- Process Vessels and Equipment
- Pressure Vessels
- Sterilizers
- Diving Decompression Chambers
- Altitude and Environmental Chambers
- Many, many more

SPECIFICATIONS

- Light Pipe
Pressure: Full Vacuum to 10,000 PSI available. Consult factory.
Mounting: 1" NPT, flanged and sanitary models available
- Light Source
Rating: WP, IP 66, EXP and FP available
Power Req: 16-20W
- Typ. Max Tank Specification
80W: 25 ft [7.6m] dia. X 70 ft [21.3m] dp.
- Power Supply
Options: 24V - 230V input options available.

UNIQUE DESIGN

Our patented design consists of three main components: light source, light pipe and driver. A high output, long-life LED array delivers the maximum amount of light into the vessel. Light is guided fiber-optically through the light pipe into the process or pressure area. All Canty light pipes feature our high pressure, high temperature fused glass seal for maximum safety. A variety of couplings are available.

Typical Dimensions



For fiber optic flexible bundle models reference datasheet P/N TA10607-2

HOW TO ORDER: Select the appropriate symbols and build a part number as shown:

EXAMPLE:

H7UD85S0-LED

Light Source Selection

120V / 230V Options:

H7 - 120V AC input direct to light. EXP rating, .25A
 E7 - 230V AC input direct to light. ATEX FP rating, .25A

EH - 120V AC input direct to light. WP rating, .25A
 E1 - 230V AC input direct to light. IP rating, .25A

24V DC Options:

H6 - 24V DC, EXP rated light, 1A
 E6 - 24V DC, ATEX FP rated light, 1A

H8 - 24V DC, WP rated light, 1A
 E9 - 24V DC, IP rated light, 1A

Switches

Weather Proof Light Options

(EH/E1) 120V / 230V Models:

U - Customer supplies ON/OFF switch.
 C - NEMA 4X / IP66 enclosure with switch. 120V AC input.
 R - NEMA 4X / IP66 enclosure with switch. 230V AC input.

(H8/E9) 24V DC Models:

U - Customer supplies ON/OFF switch.

Explosion Proof / Flame Proof Light Options

(H7/E7) 120V / 230V Models:

U - Customer supplies ON/OFF switch.
 P - Explosion proof switch, 120V AC (H7) / or ATEX FP Switch, 230V AC (E7), See note 5.

(H6/E6) 24V DC Models:

U - Customer supplies ON/OFF switch

Insertion Length*

0 - None 5 - 5" INS B - 11" INS
 1 - 2" INS 6 - 7" INS C - 12" INS
 2 - 6" INS 7 - 8" INS D - 13" INS
 3 - 3" INS 8 - 9" INS E - 14" INS
 4 - 4" INS A - 10" INS

* Insertions Are Not Available on Glass Wetted Models

Non Wetted Material (Carbon Steel, Stainless Steel)

C - CS, 150# ANSI D - CS, 300# ANSI
S - SS, 150# ANSI E - SS, 300# ANSI
 A - CS, 10 BAR Z - CS, 16 BAR
 B - SS, 10 BAR Y - SS, 16 BAR
 0 - No Retaining Flange Required/Applicable. Select for Tri-Clamp® and NPT Connections.

Mounting Connection

1 - 1" NPT
 9 - 1.5" Flanged, 150# /DN40 PN10
 3 - 2" Flanged, 150# /DN50 PN10
 4 - 3" Flanged, 150# /DN80 PN10
5 - 4" Flanged, 150# /DN100 PN10
 6 - 6" Flanged, 150# /DN150 PN10 (Insertion only)
 Z - 1.5" Flanged, 300# /DN40 PN16
 A - 2" Flanged, 300# /DN50 PN16
 B - 3" Flanged, 300# /DN80 PN16
 C - 4" Flanged, 300# /DN100 PN16
 D - 6" Flanged, 300# /DN150 PN16 (Insertion only)
 E - 1" or 1.5" Tri-Clamp®
 F - 2" Tri-Clamp®
 Y - 2.5" Tri-Clamp®
 G - 3" Tri-Clamp®
 H - 4" Tri-Clamp®
 J - 2" 150# / DN50 PN10 Glass Wetted Flange
 K - 3" 150# / DN80 PN10 Glass Wetted Flange
 L - 4" 150# / DN100 PN10 Glass Wetted Flange
 M - 6" 150# / DN150 PN10 Glass Wetted Flange
 Many Additional Sizes Available. Consult Factory.

Beam Output Options

8 - Normal Beam High Temp

Wetted Materials

S - 316L SS*
 D - Hastelloy® C276 or equal
 E - Hastelloy® C-22® or equal
 F - Boroplus (Glass Wetted)**
 * Canty Reserves the right to upgrade to Hastelloy® C-family of alloys or equal at their own cost.
 ** Not available on all models

Notes :

- Some options are not available on all models.
- Vessel lighting diameter, depth specifications provided are a general guideline for stainless steel tanks. For blue glass lined reactors, which will absorb visible wavelengths of light, a derating factor of 0.7 is recommended.
- All Explosion Proof lights are rated for use in Class I, Div. 1, Groups B, C and D, Class II, Div. 1, Groups E, F & G as well as NEMA 4 locations. Power supply rating vary with model.
- All ATEX Flame Proof lights are approved for use in EExd II C T6 and IP 66 locations.
- Explosion proof power supply enclosures are rated use in Class I, Div. 1, Groups C and D, Class II, Div. 1, Groups E, F & G locations. ATEX Flame proof switch is EExd IIC T6.

All registered trademarks are the property of their respective owners.

WP = Weather Proof
 EXP = Explosion Proof
 FP = Flame Proof
 IP = Ingress Protection

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