Jerguson®

LumaStar™ Illuminators



The Ten-Year Solution™





JERGUSON®
A Product of Clark-Reliance

Without the Right Illumination, You Could Be In the Dark!

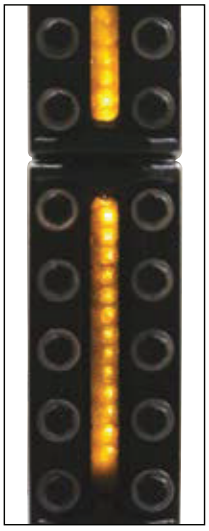


A Typical Dirty Glass Level Gage Without Illumination

Case 1: Top of fluid level is between glass sections.

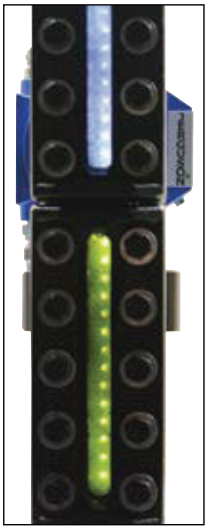


Competitive Light A (Green LED's)



Competitive Light B (Amber LED's)

With the top of the fluid level right between the glass sections, your indicator could create a dangerous situation as the operator may easily think the gage was full or empty.



Jerguson® LumaStar™ Illuminator (White LED's)

High contrast illumination makes it easy to see that the level is between glass sections.

There's No Mistaking Your Level with a LumaStar™ Illuminator

Case 2: Top of fluid level is within a glass section.



Competitive Light A (Green LED's)



Competitive Light B (Amber LED's)



Jerguson® LumaStar™ Illuminator (White LED's)

With dirt on the glass, the level is not as clear. Your indicator could create a dangerous situation as the operator may easily think the gage was full or empty if viewing from a distance or in poor lighting conditions.

A colored LED can have the negative affect of "blending in" with the color of the process fluid, making it difficult to see the level.

Even with dirty glass, there is no doubt where the level is!

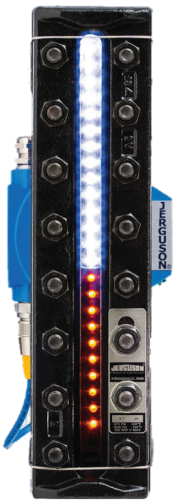
Color is Critical!

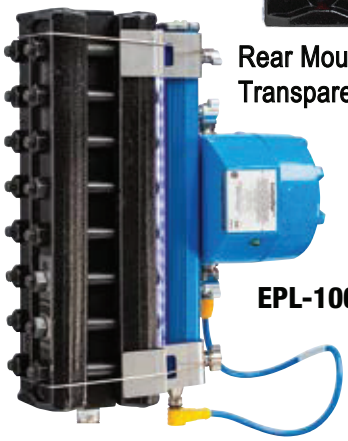
"I purchased some 50 units of EPL-100 Illuminators for Chevron's Hawaii Refinery. The operators are very pleased with this unit as it radiates a tremendous amount of lighting through the gage glasses unlike the older incandescent types we had here. This makes verifying levels in columns, vessels, drums, etc. much easier. This is a good product and suited our needs perfectly."

- Darin M. Matsumiya,
I/E Supervisor/Analyst at
Chevron Texaco Hawaii

JERGUSON®
A Product of Clark-Reliance

LED Illuminator for All Jerguson® Glass Level Gages





Rear Mount
Transparent Gage

EPL-100

LumaStar™ Illuminator

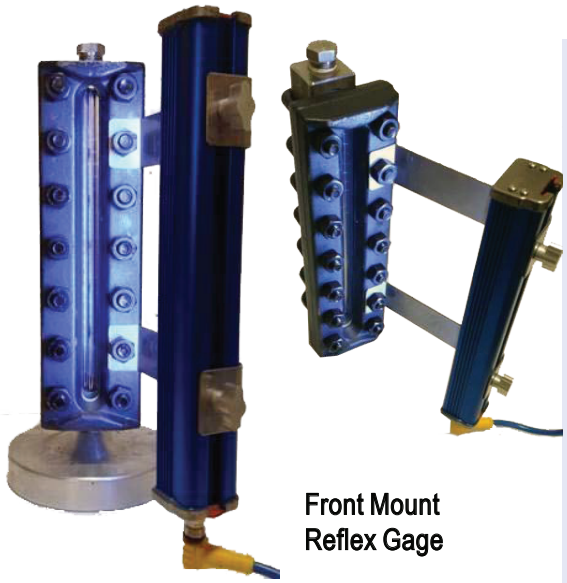
Model EPL-100

The Ten-Year Solution: Anodized Aluminum Construction

Jerguson® LumaStar™ Illuminators' white LED design combines long-life performance with superior visibility for hazardous locations. Jerguson's Model EPL-100 is approved for use in Class I, Div 1, Group B, C & D and Zone 1 environments and available in sizes up to 58" long with a single power supply. That means a four section size nine or five section size seven gage from a single power supply at less than 250 mA! Contact your local representative or a Jerguson Applications Engineer to configure an EPL-100 for your transparent glass level gages.

- High Contrast
  - *Superior Visibility Day or Night*
- Maintenance FREE
- Long Life ~100,000 hrs.
- No Heat Generation
- Field Upgradable
  - *Fits any glass gage!*
- NEMA 4x (Power Supply Enclosure)
- Eliminates "bulb-changes"
- Longest Field-of-View
- Covers up to 4 Size 9 Gage Sections or 5 Size 7 Gage Sections
- Explosion-Proof Power Supply, Intrinsically Safe Lighting Circuit
- Pays for itself in electricity savings alone!

For use on Transparent and Reflex style gages.



Front Mount
Reflex Gage

Specifications – Model EPL-100

Power Supply:	115 or 230 VAC @ 50-60 Hz
Power Supply Weight:	5.2 lbs
Power Consumption:	<125mA @ 230 max <250mA @ 115 max
Estimated Life:	100,000 Hours (continuous)
Wire Size:	Min 18 AWG (0.8 mm^2) / Max 12 AWG (3.5 mm^2)
Max Distance from Power Supply to Light Strip:	72 ft (22 m)
Electrical Connection:	3/4" FNPT

US/Canada Approvals:

Class I, Division 1, Groups B,C,D T4
Class I, Zone 1, AEx db [ib] IIB+H2 T4 Gb (Power Supply)
Class I, Zone 1, AEx ib IIB+H2 T4 Gb (Light)
Ex db [ib] IIB+H2 T4 Gb (Power Supply)
Ex ib IIB+H2 T4 Gb (Light)
-40°F (-40°C) ≤ Ta ≤ +140°F (60°C)

ATEX Approvals:

II 2(2) G Ex db [ib] IIB+H2 T4 Gb (Power Supply)
II 2 G Ex ib IIB+H2 T4 Gb (Light)
-40°F (-40°C) ≤ Ta ≤ +140°F (60°C)

IECEx:

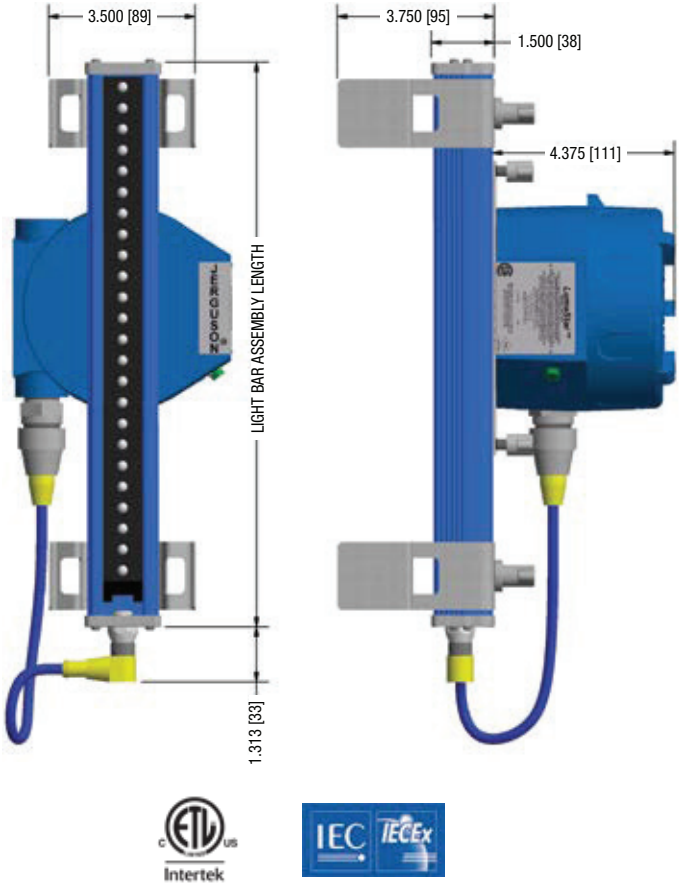
Ex db [ib] IIB+H2 T4 Gb (Power Supply)
Ex ib IIB+H2 T4 Gb (Light)
-40°F (-40°C) ≤ Ta ≤ +140°F (60°C)

24VDC Barrier Drive Option Available, see page 8

LumaStar™ EPL-100

LumaStar Model EPL-100 Series 20/32	LumaStar Model EPL-100 Series 300L	Overall Length in	Overall Length mm	Total Weight lbs.
EPL-100-1_1		5.25	133	5.4
EPL-100-2_1		5.25	133	5.4
EPL-100-3_1		7.25	184	5.6
EPL-100-4-1		7.25	184	5.6
EPL-100-5_1		9.25	235	5.7
EPL-100-6_1	EPL-100-11_1	11.25	286	5.9
EPL-100-7_1		11.25	286	5.9
EPL-100-8_1	EPL-100-12_1	13.25	337	6.1
EPL-100-9_1	EPL-100-13_1	13.25	337	6.1
EPL-100-3_2	EPL-100-15_1	15.25	387	6.3
EPL-100-4_2		17.25	438	6.4
EPL-100-5_2	EPL-100-18_1	19.25	489	6.6
EPL-100-6_2	EPL-100-20_1	21.25	540	6.8
EPL-100-7_2	EPL-100-11_2	23.25	591	6.9
	EPL-100-12_2	25.25	641	
EPL-100-8_2	EPL-100-13_2	27.25	692	7.3
EPL-100-9_2		29.25	743	7.4
EPL-100-6_3	EPL-100-15_2	31.25	794	7.6
EPL-100-7_3	EPL-100-11_3	35.25	895	7.9
	EPL-100-18_2	37.25	946	
EPL-100-8_3	EPL-100-12_3	39.25	997	8.3
EPL-100-9_3	EPL-100-20_2 / EPL-100-13_3	41.25	1048	8.5
EPL-100-7_4	EPL-100-15_3	47.25	1200	9.0
EPL-100-8_4		53.25	1353	9.5
EPL-100-9_4	EPL-100-18_3	57.25	1454	9.9
EPL-100-7_5		59.25	1505	10.1

Consult Factory for Specifications of Models for Series 40 Level Gages



How to Specify LumaStar™ EPL-100

EPL-100- 9 – 1 – 1 – 1 –

LumaStar, Model EPL 100
115 or 230 VAC 50/60 Hz
NEMA 4x

Gage Window Size (1 thru 9 or 11 thru 20)

Prewired Terminal Connections
1 = Intertek/ETL for USA & Canada*, 115 VAC 50/60 Hz
2 = Intertek/ETL for USA & Canada*, 230 VAC 50/60 Hz
3 = ATEX/IECEx Approved*, 115 VAC 50/60 Hz
4 = ATEX/IECEx Approved*, 230 VAC 50/60 Hz
24 VDC option available, see page 8

Number of Gage Sections (1, 2, 3, 4)

Blank = Standard
D = Daisy Chain (for multiple single section light strips with connecting braided wire cable shielded for strength. Consult factory for maximum lengths and number of sections)
R = Remote Mount Power Supply - R06 for 6ft power cord, R16 for 16ft power cord

Mounting Brackets
1 = Universal Mounting Bracket for cover plates up to 3-1/2" in width. Use for all Jerguson Series 20/30/32/L10/300L/5/12/18 and competitive L/M/H series gages.
4 = Series 20/32 CS Covers NF Ext.
5 = Series 20/32 SS Covers NF Ext.
6 = Series 30/900# Boiler Water Gages
7 = Reliance FG450/900
8 = Reliance FG1500
9 = Series 40/1100/1600# Boiler Water Gages
11 = Jogler
12 = Reflex Gage

Replacement 18" cable: V20509
(End-Fitting construction is Nickel-Plated Brass.)

Extension Cord for remote mount, 6.5 ft. length: V20601-6-5
(End-Fitting construction is Nickel-Plated Brass.)

*See page 4 for details

Note: Power Supply will be remote mounted for all single section size 7 and smaller illuminators.

LED Offshore Illuminator for Jerguson® Stainless Steel Glass Level Gages





EPL-316



FM/CSA Power Supply

LumaStar™ Offshore Illuminator

Model EPL-316

All 316 Stainless Construction for Offshore & Other Severe Service Environments, Another Bright Ten-Year Solution

Jerguson® is pleased to announce the addition of the 316 Stainless Steel LED Gage Glass LumaStar™ Illuminator to the world's largest selection of level indication and control products. Jerguson's Model EPL-316 is approved for use in Class I, Div 1, Group B, C & D and Zone 1 environments and available in sizes up to 58" long with a single power supply. That means a four section size nine gage or five section size seven from a single power supply at less than 250 mA! Contact your local representative or a Jerguson Applications Engineer to configure an EPL-316 for your transparent glass level gages.

- 316 Stainless Steel Construction
- High Contrast
  - *Superior Visibility Day or Night*
- Maintenance FREE
- Long Life ~100,000 hrs.
- No Heat Generation
- Field Upgradable
  - *Fits any glass gage!*
- NEMA 4x (Power Supply Enclosure and Light bar)
- Eliminates "bulb-changes"
- Longest Field-of-View
- Covers up to 4 Size 9 Gage Sections or 5 Size 7 Gage Sections
- Explosion-Proof Stainless Steel Power Supply, Intrinsically Safe Lighting Circuit
- Pays for itself in electricity savings alone!
- IP66 Light Bar

24VDC Barrier Drive Option Available, see page 8

Specifications – Model EPL-316

Power Supply:	115 or 230 VAC @ 50-60 Hz
Power Supply Weight:	7.4 lbs
Power Consumption:	<125mA @ 230 max <250mA @ 115 max
Estimated Life:	100,000 Hours (continuous)
Wire Size:	Min 18 AWG (0.8 mm^2) / Max 12 AWG (3.5 mm^2)
Max Distance from Power Supply to Light Strip:	72 ft (22 m)
Electrical Connection:	3/4" FNPT

US/Canada Approvals:

Class I, Division 1, Groups B,C,D T4
Class I, Zone 1, AEx db [ib] IIB+H2 T4 Gb (Power Supply)
Class I, Zone 1, AEx ib IIB+H2 T4 Gb (Light)
Ex db [ib] IIB+H2 T4 Gb (Power Supply)
Ex ib IIB+H2 T4 Gb (Light)
-40°F (-40°C) ≤ Ta ≤ +140°F (60°C)

ATEX Approvals:

II 2(2) G Ex db [ib] IIB+H2 T4 Gb (Power Supply)
II 2 G Ex ib IIB+H2 T4 Gb (Light)
-40°F (-40°C) ≤ Ta ≤ +140°F (60°C)

IECEx:

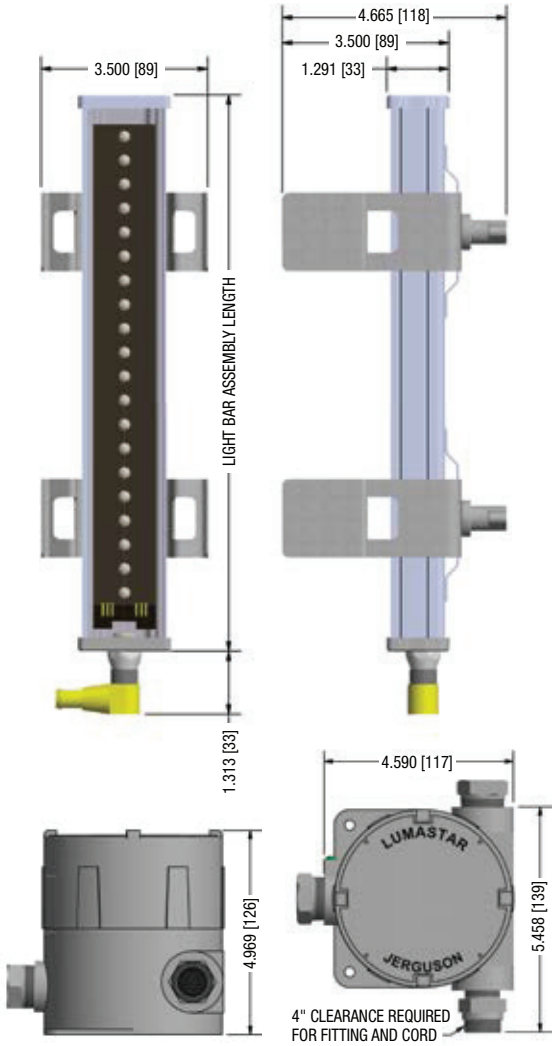
Ex db [ib] IIB+H2 T4 Gb (Power Supply)
Ex ib IIB+H2 T4 Gb (Light)
-40°F (-40°C) ≤ Ta ≤ +140°F (60°C)

LumaStar™ EPL-316

LumaStar Model EPL-316 Series 20	LumaStar Model EPL-316 Series 300L	Overall Length in	Overall Length mm	Light Assembly Weight lbs	Total Weight (including Remote Mount Power Supply)
EPL-316-1_1		5.25	133	0.5	7.9
EPL-316-2_1		5.25	133	0.5	7.9
EPL-316-3_1		7.25	184	0.7	8.1
EPL-316-4_1		7.25	184	0.7	8.1
EPL-316-5_1		9.25	235	0.9	8.3
EPL-316-6_1	EPL-316-11_1	11.25	286	1.1	8.5
EPL-316-7_1		11.25	286	1.1	8.5
EPL-316-8_1	EPL-316-12_1	13.25	337	1.3	8.7
EPL-316-9_1	EPL-316-13_1	13.25	337	1.3	8.7
EPL-316-3_2	EPL-316-15_1	15.25	387	1.5	8.9
EPL-316-4_2		17.25	438	1.7	9.1
EPL-316-5_2	EPL-316-18_1	19.25	489	1.9	9.3
EPL-316-6_2	EPL-316-20_1	21.25	540	2.1	9.5
EPL-316-7_2	EPL-316-11_2	23.25	591	2.3	9.7
	EPL-316-12_2	25.25	641	2.5	9.9
EPL-316-8_2	EPL-316-13_2	27.25	692	2.7	10.1
EPL-316-9_2		29.25	743	2.9	10.3
EPL-316-6_3	EPL-316-15_2	31.25	794	3.1	10.5
EPL-316-7_3	EPL-316-11_3	35.25	895	3.5	10.9
	EPL-316-18_2	37.25	946	3.7	11.1
EPL-316-8_3	EPL-316-12_3	39.25	997	3.9	11.3
EPL-316-9_3	EPL-316-20_2 / EPL-316-13_3	41.25	1048	4.1	11.5
EPL-316-7_4	EPL-316-15_3	47.25	1200	4.7	12.1
EPL-316-8_4		53.25	1353	5.3	12.7
EPL-316-9_4	EPL-316-18_3	57.25	1454	5.7	13.1
EPL-316-7_5		59.25	1505	5.9	13.3

Consult Factory for Specifications of Models for Series 40 Level Gages

Intertek



How to Specify LumaStar™ EPL-316

EPL-316- 9 – 1 – 1 – 1 –

LumaStar, Model EPL 316
115 or 230 VAC 50/60 Hz
NEMA 4x

Gage Window Size (1 thru 9 or 11 thru 20)

Prewired Terminal Connections
1 = Intertek/ETL for USA & Canada*, 115 VAC 50/60 Hz
2 = Intertek/ETL for USA & Canada*, 230 VAC 50/60 Hz
3 = ATEX/IECEx Approved*, 115 VAC 50/60 Hz
4 = ATEX/IECEx Approved*, 230 VAC 50/60 Hz

Number of Gage Sections (1, 2, 3, 4)

Replacement 72" cable: V21249
(End-Fitting construction is 316/316L SS.)

Blank = Standard
D = Daisy Chain (for multiple single section light strips with connecting armored cable, consult factory for maximum lengths and number of sections)

Mounting Brackets
1 = Universal Mounting Bracket for cover plates up to 3-1/2" in width. Use for all Jerguson Series 20/30/32/L10/300L/5/12/18 and competitive L/M/H series gages.

*See page 6 for details

Note: All Power Supplies are remote mounted.

Barrier Driven 24VDC LED Illuminator for All Jerguson® Glass Level Gages



EPL-100



EPL-316

LumaStar™ Illuminator

Model EPL-100 & EPL-316

The Ten-Year Solution: Barrier Driven 24VDC Power Supply Option

Jerguson® LumaStar™ Illuminators' white LED design combines long-life performance with superior visibility for hazardous locations. Jerguson's illuminators with 24VDC power supplies are approved for use in Class I, Div 1, Group A, B, C & D environments and available in sizes up to 58" long with a single power supply. That means a four section size nine or five section size seven gage from a single power supply at less than 250 mA! Contact your local representative or a Jerguson Applications Engineer to configure an illuminator for your transparent glass level gages.

- 24VDC Power Supply
- Terminal Housing or Field-Wireable Connector Available
- High Contrast
  - *Superior Visibility Day or Night*
- Maintenance FREE
- Long Life ~100,000 hrs.
- No Heat Generation
- 316SS Light Bar is IP66 / NEMA 4x
- Field Upgradable
  - *Fits any glass gage!*
- Eliminates "bulb-changes"
- Longest Field-of-View
- Covers up to 4 Size 9 Gage Sections or 5 Size 7 Gage Sections
- Pays for itself in electricity savings alone!

Specifications – Model EPL-100 & EPL-316

Power Supply:	24VDC (Power supply not included as standard)
Estimated Life:	100,000 Hours (continuous)
Agency Approvals:	Intertek / ETL *Class I, Div 1, Grps. A, B, C, & D, T4*
Wire Size:	Min 18 AWG (0.8 mm^2) / Max 12 AWG (3.5 mm^2)
Max Distance from Barrier to Light Strip:	1800 ft (548m)
Ambient Temperature:	-40°F (-40°C) to 140°F (60°C)
Electrical Connection:	7/8" diameter Panel opening for customer supplied cable gland or conduit fitting 3/4" FNPT (316SS Enclosure)

Power Supply Order Information

Note: A 24VDC Power Supply is not included with the products described above.

Part Number:	V22185

Specifications

Output:	24VDC @ 420mA, 10W
Input:	90-264 VAC, 50/60 Hz, 0.3A Max
Type:	DIN Mount, NEC Class 2
Derating:	>55°C, 2.5%/°C
Operating Temp:	-25 to 71°C
Storage Temp:	-25 to 85°C
Humidity:	5 to 95% RH (Non-Condensing)

Field Terminal Connections

See page 5 or 7 for light assembly dimensions.



Field Wireable Connector
Material: Nickel-Plated Brass for model EPL-100 & 316SS for model EPL-316



Pin detail for Field Wireable Connector

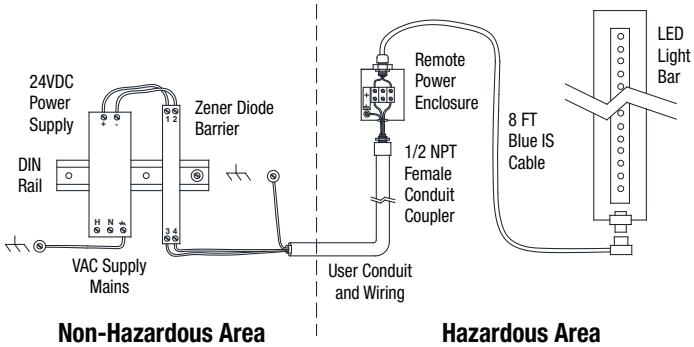
Field Terminal Connection options 5 or 7

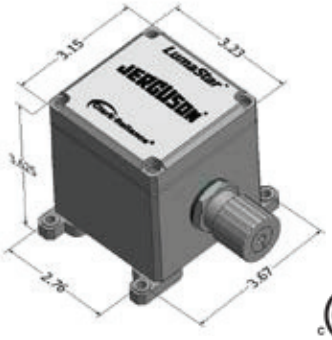


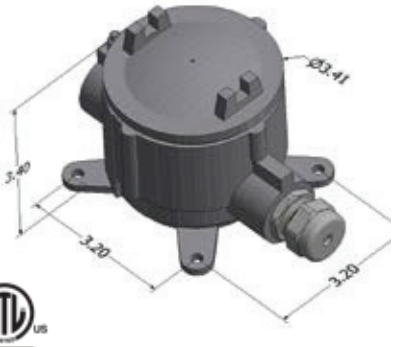
S24927: Terminal Enclosure; FRP for model EPL-100



S24928: Terminal Enclosure; 316SS for model EPL-316







Intertek

How to Specify LumaStar™ EPL-100 & EPL-316

EPL-100 - 5 – 1 – 1 – 1 –

100 = Aluminum Light Strip Housing
316 = Stainless Steel Light Strip Housing

Gage Window Size (1 thru 9 or 11 thru 20)

24VDC Field Terminal Connections
5 = Barrier + Terminal Enclosure[1]
6 = Barrier + Field Wireable Connector[1]
7 = Terminal Enclosure[2]
8 = Field Wireable Connection[2]

Number of Gage Sections (1, 2, 3, 4)

Blank = Standard
D = Daisy Chain (for multiple single section light strips with connecting braided wire cable shielded for strength. Consult factory for maximum lengths and number of sections)

Mounting Brackets
1 = Universal Mounting Bracket for cover plates up to 3-1/2" in width. Use for all Jerguson Series 20/30/32/L10/300L/5/12/18 and competitive L/M/H series gages.
4 = Series 20/32 CS Covers NF Ext.
5 = Series 20/32 SS Covers NF Ext.
6 = Series 30/900# Boiler Water Gages
7 = Reliance FG450/900
8 = Reliance FG1500
9 = Series 40/1100/1600# Boiler Water Gages
11 = Jogler
12 = Reflex Gage

Replacement 8' cable, standard enclosure: V21906-8
(End-Fitting construction is Nickel-Plated Brass.)

Replacement 8' cable, 316SS enclosure: V21906-T-8
(End-Fitting construction is 316SS.)

Notes:
[1] Barrier provided is Turck item number MZB28P, or equal.
[2] Intrinsically safe barrier not included with these options.
All terminal enclosures are remote-mounted.



Authorised Distributor:

NATIONWIDE OIL & GAS

46, Jalan SS 22/21, Damansara Jaya,
47400 Petaling Jaya,
Selangor Darul Ehsan, Malaysia.
Email: nog@nog.com.my
Website: www.nog.com.my

JERGUSON®
A PRODUCT OF CLARK-RELIANCE

16633 Foltz Parkway, Strongsville, OH 44149 USA Phone: 440.572.1500 Fax: 440.238.8828
www.clarkreliance.com sales@clarkreliance.com

J100.32
Rev 11/2024

© 2021 Clark-Reliance LLC LumaStar and The Ten-Year Solution are trademarks of and Jerguson and Clark-Reliance are registered trademarks of Clark-Reliance LLC.