

Hazardous Area LED Lighting
HPLN LED lighting

CROUSE-HINDS
SERIES

HPLN
LED lighting for hazardous areas



EATON

Powering Business Worldwide



Safe. Reliable. Efficient.

Featuring the industry's broadest range of LED luminaires for harsh and hazardous environments, Eaton's Crouse-Hinds can deliver a lighting solution that performs reliably in even the worst operating conditions. All the while reducing your energy, maintenance and manpower costs.

Why LED?

Useful life

Rated life of 60,000 hours of maintenance-free and safe operation

Energy efficiency

LED average energy consumption is 50% less than HID and 85% less than incandescent

Start/restart time

Instant illumination compared to 10 minute restrike time for HID

Light quality

Higher color rendering and color temperature compared to fluorescent

Environmental benefits

Mercury-free LED eliminates disposal costs and lower energy consumption for a smaller carbon footprint

Why Crouse-Hinds?

Industry-best reliability

Built to withstand extreme temperatures, vibration, water and dust

Thermal management

Effective heat sinking ensures longer life

Quality of light

Custom optics designed to maximize light distribution and intensity

Retrofit compatibility

LED fixtures are compatible with Crouse-Hinds' HID installed base

HPLN LED features

Designed for hazardous areas. Featuring a broad range of LED luminaires for harsh, hazardous and industrial environments, Zone 1 HPLN products series delivers lighting solutions that perform reliably in even the worst operating conditions. This reduces energy, maintenance and manpower costs.

A

- **AC/DC universal input** to anti volt drop of long cable system and fit for CBS system
- **Surge protection device (SPD):** Up to 10kv surge protection for offshore application (standard 4Kv, 10Kv for option)

B

Rugged design

- Copper free aluminum housing, tempered and impact resistant glass globe
- Outstanding corrosion proof capability (C5M-IEC, UL1598A-UL) and anti vibration design
- Light but rugged zone 1 IIC pendant LED

C

Robust heat sink

- Robust and innovative heat sink design ensures long life in extreme environments

D

Mounting style

- IEC (trunnion indirect cable system) and NEC (direct conduit system) mounting style available
- Stanchion, pendant, ceiling, wall and trunnion mounting



E

Frosted lens option to remove glare

Perfect optical performance

- Cold white 5700K & warm white 3000K as standard; optional: 2700K, 4000K, 5000K
- Narrow (25°) / medium (60°) / wide (120°) beam optics available
- Lumen efficiency up to 130 lm/w to save more energy

Why choose HPLN LED lighting?

Multiple versions of the HPLN LED are available, providing ideal solutions for a wide range of applications.

3~11L

15L

21L/25L



Reliable LED. HPLN LED are engineered to deliver high lumen output and maintenance-free long life in the toughest conditions.

HPLN 7L vs. 175 watt HID



70%
ENERGY
EFFICIENCY



65%
TOTAL COST
OF OWNERSHIP



100%
MAINTENANCE
REDUCTION

Features & specifications

HPLN LED luminaires

The hazardous rated HPLN LED luminaire is used for general lighting in areas where flammable or explosive vapors or gases are present.

The HPLN features a compact, high-efficacy design with custom optics to ensure maximum efficiency and mounting flexibility. It is designed for both pendant and floodlight application.

Model	Nominal* lumens	Wattage	HID Equivalent
HPLN-3L	3483	26	70W-100W
HPLN-5L	5323	40	100W-150W
HPLN-7L	6684	50	150W-175W
HPLN-9L	9574	70	175W-250W
HPLN-11L	11466	85	250W-450W
HPLN-15L	14783	110	400W
HPLN-21L	21128	163	600W
HPLN-25L	24229	190	600W-1000W

*tolerance±10%, nominal lumen data for 5700K, clear glass, wide beam angle

Application:

- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Areas requiring frequent on-and-off of lights
- Where flammable vapors, gases, ignitable dusts, fibers or flyings are present; indoors or outdoors
- Where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- Marine, wet locations and hose-down environments
- Manufacturing plants, heavy industrial, chemical, petrochemical or pharmaceutical facilities, platforms, loading docks and tunnels etc.

Fixture life:

Fixture life and years of maintenance-free operation

Ambient temperature	No. of years at 24 hours usage	No. of years at 12 hours usage
25°C	10	20
30°C	10	20
35°C	10	20
40°C	10	20
45°C	10	20
50°C	7	14
55°C	5	10



HPLN LED benefits:

- Instant illumination and strike
- Cold temperature operation/no warm up requirement
- Multiple mounting flexibility and easy maintenance
- Contains no mercury or other hazardous substance
- Shock-and vibration-resistant
- 5-year warranty
- IP66 protection
- Ambient temperature: -40°C to +55°C

Standard materials:

- Body and mounting modules – copper-free aluminum with C5M coating
- Lens-tempered and impact resistant glass globe
- Gaskets – silicone
- Guard – stainless steel

LED system:

- Cold white 5700K, CRI70 & warm white 3000K, CRI80 as standard, optional: 2700K, 4000K, 5000K
- Narrow (25°) / medium (60°) / wide (120°) beam optics available

Specifications

Electrical rating:

	3L	5L	7L	9L	11L	15L	21L	25L
Voltage range VAC	100-240	100-240	100-240	100-240	100-240	100-240	100-240	100-240
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Input power (watts)	26	40	50	70	85	110	163	190
Input amps at 100~240 VAC	0.8A max@100VAC 0.35A max@240VAC		1.3A max@100VAC 0.6A max@240VAC		1.6A max@100VAC 0.7A max@240VAC		2.6A max@100VAC 1.2A max@240VAC	
Power factor	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95
Voltage range VDC	127-250	127-250	127-250	127-250	127-250	127-250	127-250	127-250
THD	<10%	<10%	<10%	<10%	<10%	<10%	<10%	<10%

Certifications and compliances:

- Marking accd.to IECEx:
Ex db eb mb op is IIC T4 Gb
Ex tb op is IIIC T95°C Db
- Marking accd.to 2014/34/EU:
II 2 G Ex db eb mb op is IIC T4 Gb
II 2 D Ex tb op is IIIC T95°C Db
- Certificate No.
IECEX PRE 19.0058X
Presafe 19 ATEX 09286X

Weight:

Model	Appr. kg
3L-11L	11kg
15L	14kg
21/25L	15kg

Ordering information:

Part no.	Product type	T.amb	T code
CCL1753627	HPLN-3L-C3-20C-W	-40°C~+55°C	T4
CCL1753755	HPLN-5L-C3-20C-W		
CCL1753883	HPLN-7L-C3-20C-W		
CCL1754139	HPLN-11L-C3-20C-W		
CCL1754267	HPLN-15L-C3-20C-W		
CCL1754395	HPLN-21L-C3-20C-W		
CCL1754523	HPLN-25L-C3-20C-W		



Ordering information

HPLN

-9L*

-C3

-20C

-W

-F

-G

Total lm	
3L	3483
5L	5323
7L	6684
9L	9574
11L	11466
15L	14783
21L	21128
25L	24229

Color Temp.	
W2	3000K**
C3	5700K**

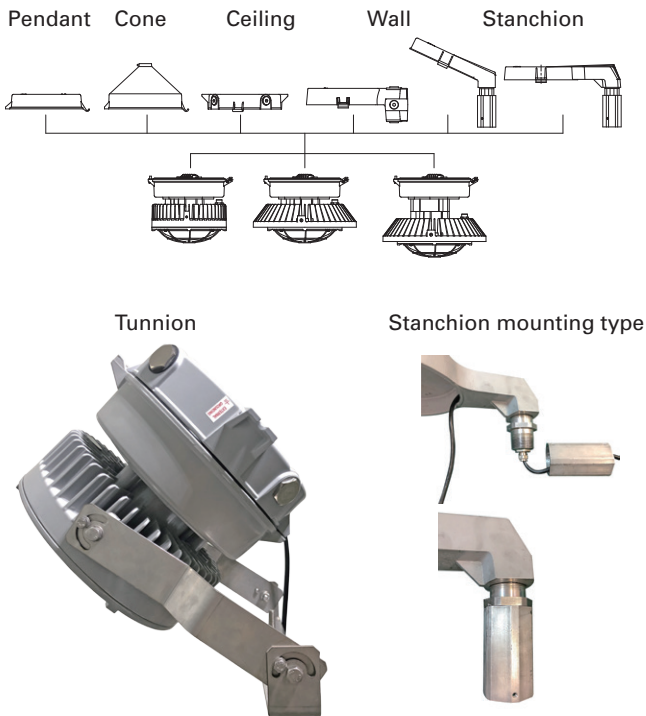
Bean angle	
W	Wide(120°)
M	Medium(60°)
N	Narrow(25°)

Mounting type	
Blank	no cover
J***	1-½" Stanchion, 25°Angled
P***	1-½" Stanchion, Straight
20A	20mm Pendant
25A	25mm Pendant
20C	20mm Ceiling
25C	25mm Ceiling
20TW	20mm Wall
25TW	25mm Wall

Glass	
Default	Clear Glass
F	Foggy Glass

Guard	
Default	without guard
G	with guard

*tolerance±10%, nominal lumen data for 5700K,clear glass,wide bean angle
 **5700K and 3000K are standard version, if other option, pls contact Crouse-Hinds sales for details.
 ***with J and P stanchion mounting type, need to tell internal entry size



Accessories (ordered separately)

Mounting accessories	Part no.	Description
Ceiling cover	CHLAS2084-13	20C = 20mm ceiling
	CHLAS2084-14	25C = 25mm ceiling
Wall cover	CHLAS1230-13	20TW = 20mm wall
	CHLAS1230-14	25TW = 25mm wall
Pendant	CHLAS1231-13	20A = 20mm pendant
	CHLAS1231-14	25A = 25mm pendant
Stanchion-J 25°	CHLAS1234-09	1-½ "/M20 stanchion
	CHLAS1234-10	1-½ "/M25 stanchion
Stanchion-P 90°	CHLAS1370-09	1-½ "/M20 stanchion
	CHLAS1370-10	1-½ "/M25 stanchion

Safety cable

Mounting type	Config	Part no
Ceiling with U bracket	3L-25L	CHR6196
		CCL1625591
Other mounting	3L-11L	CHR7005
	15L-25L	CCL1622490

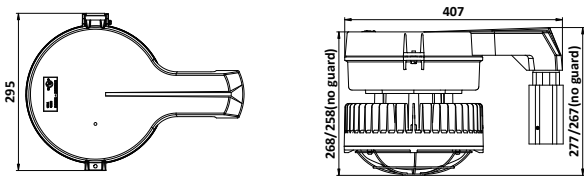
Trunnion mounting bracket(for ceiling mounting only)

Part no	Config
CHLAS2182-06	Trunnion bracket for 3L-11L
CHLAS2183-06	Trunnion bracket for 15L
CHLAS2184-06	Trunnion bracket for 21L-25L

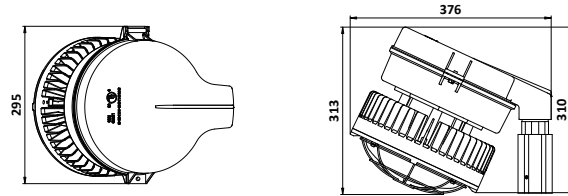
Mounting options and dimensions

3- 11L

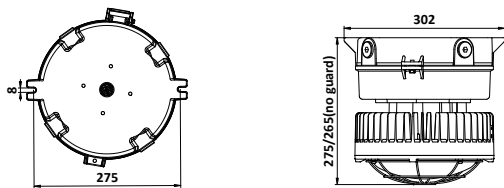
Stanchion – straight



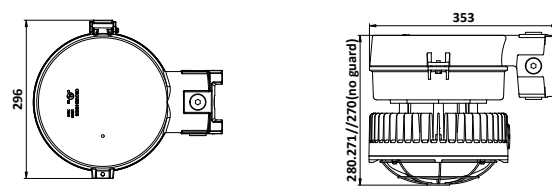
Stanchion – 25° angled



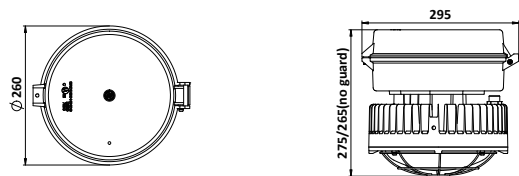
Ceiling



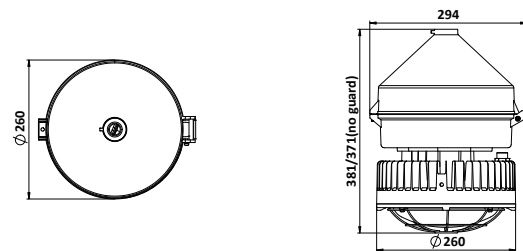
Wall



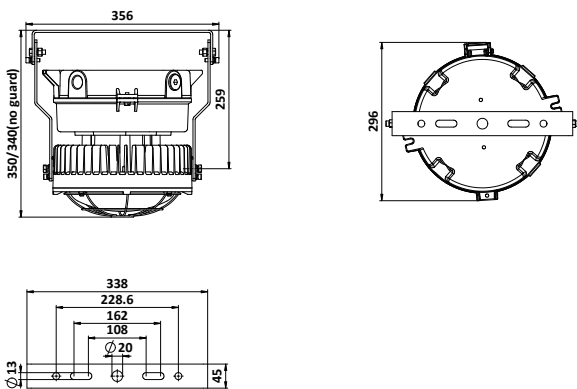
Pendant



Cone pendant

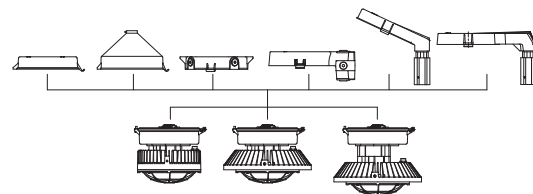


Trunnion



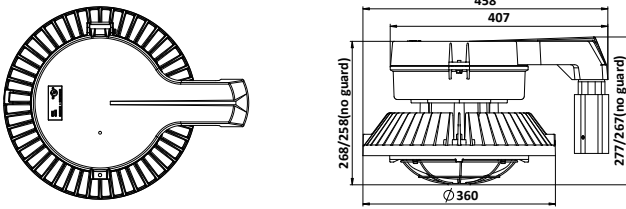
Mounting module series

Pendant Cone Ceiling Wall Stanchion

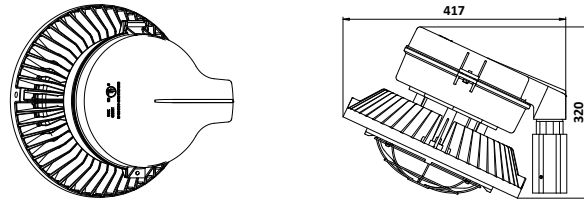


Mounting options and dimensions 15L

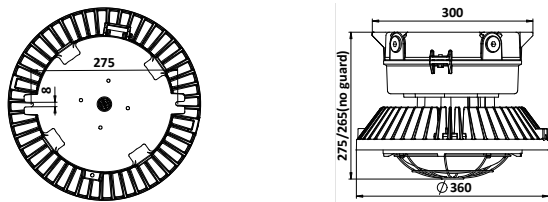
Stanchion – straight



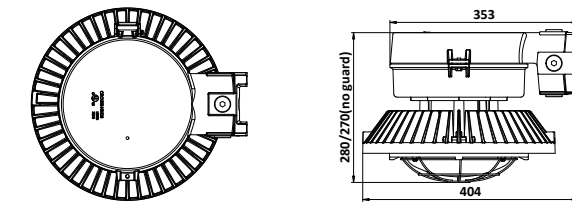
Stanchion – 25° angled



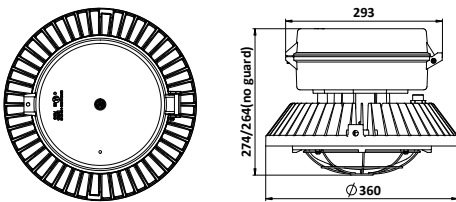
Ceiling



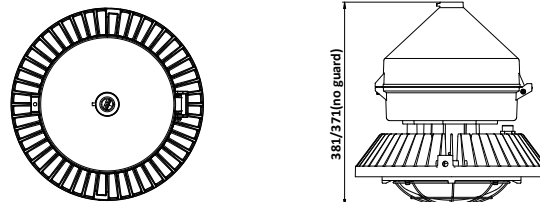
Wall



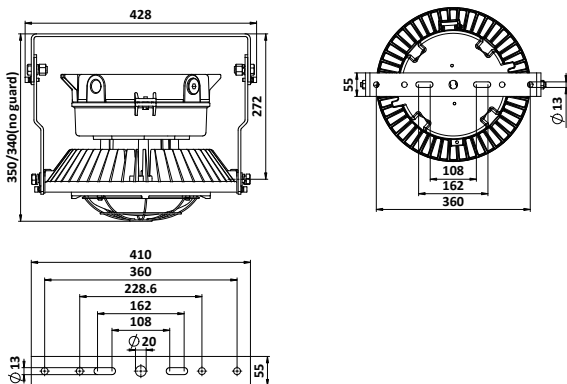
Pendant



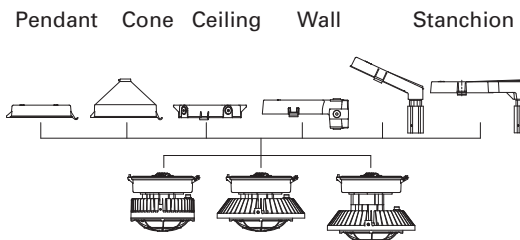
Cone pendant



Trunnion

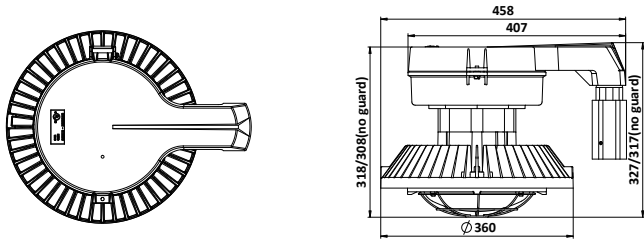


Mounting module series

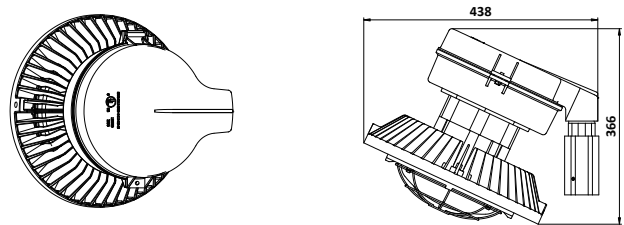


Mounting options and dimensions 21L/25L

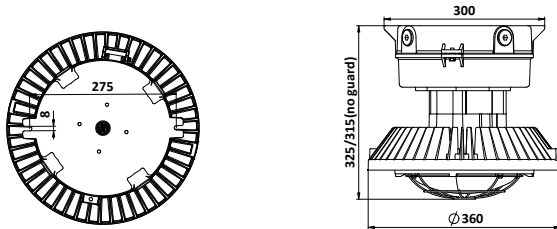
Stanchion – straight



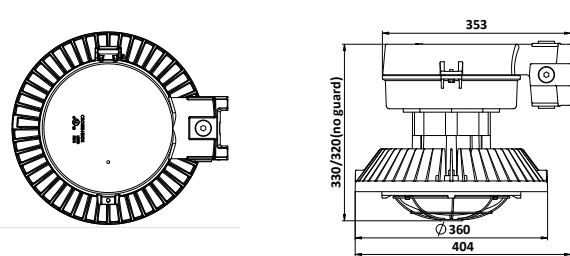
Stanchion – 25° angled



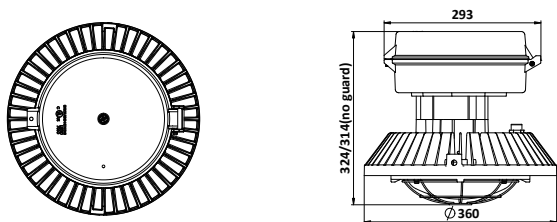
Ceiling



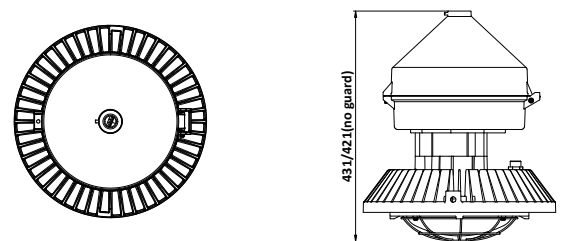
Wall



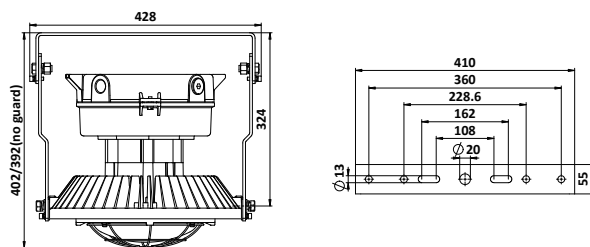
Pendant



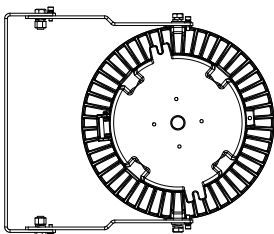
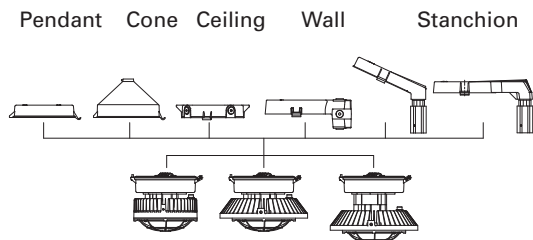
Cone pendant



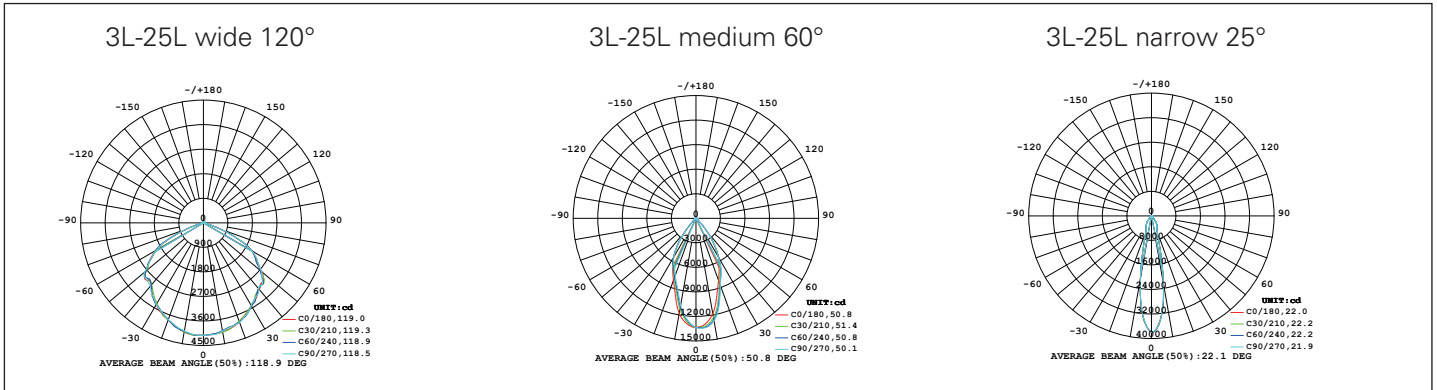
Trunnion



Mounting module series



Polar Curves



China Eaton's Crouse-Hinds Division

No.955 Shengli Road,
Pudong District, Shanghai 201201
China
86-21-2899-3600
FAX: 86-21-2899-4055
Echsales@eaton.com

U.S. (Global Headquarters)

1-866-764-5454
Fax: 1-315-477-5179
Fax Orders Only: 1-866-653-0640

Middle East (Dubai):

971-4-427-2500
FAX: 971-4-429-8521
chmesales@eaton.com

Korea:

82-2-6380-4032
FAX: 82-2-6380-4070
CCHK-sales@eaton.com

Mexico/Latin America/Caribbean:

52-555-804-4000
FAX: 52-555-804-4020
ventascentromex@eaton.com

Singapore:

65-6825-1668
FAX: 65-6645-9811
Chsi-sales@eaton.com

Australia:

+1300-332-866
FAX: 61-2-9693-5127
Crousehindsanz@eaton.com

For more information:

If further assistance is required, please contact an authorized Eaton Distributor, Sales Office, or Customer Service Department.

Europe (Germany):

49-0-6271-806-500
FAX: 49-0-6271-806-476
info-ex@eaton.com

Canada:

1-800-265-0502 (Toll free)
FAX: 1-800-263-9504
FAX Orders only: 1-866-653-0654

India:

91-124-468-3888
FAX: 91-124-468-3899
CCHINDIA@eaton.com

Eaton's Crouse-Hinds
1201 Wolf Street
Syracuse, NY 13208
Crouse-Hinds.com

Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

© 2020 Eaton
All Rights Reserved
Printed in China
Publication No. HPLN2020-EN
August 2020

Eaton is a registered trademark.

All other trademarks are property of their respective owners.