

Explosion protected linear light luminaire
Zone 1, 2, 21 and 22

CROUSE-HINDS
SERIES

VLL Series

LED linear fixtures for hazardous areas



Safe. Reliable. Efficient.



Powering Business Worldwide

VLL LED GRP linear luminaires

Features & specifications

The VLL product Series LED Luminaires with high-quality LED chips, have extremely long lifespan. Multiple versions of the LED are available, providing ideal solutions for indoor or outdoor areas to retrofit existing fluorescent luminaires.

Model	Nominal* lumens	Wattage	Efficacy	Equivalent fluorescent
VLL-3L	3100	<25 W	>130~lm/W	2x18 W
VLL-5L	6400	<50 W	>130~lm/W	2X36 W
VLL-7L	7400	<58 W	>130~lm/W	2X54 W

*Lumen values apply to 5700K light color, 70 CRI luminaires. Lumen output may vary slightly for different models.

*Tolerance+/-10%

Application

- Locations where require 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; tunnels



Benefits:



EFFICIENCY

- Industry leading lumen efficacy up to 130~lm/w reduces energy consumption and delivers cost savings.
- Three lumen packages available from 3100 to 7400lm providing a versatile solution for different illumination applications.



SAFETY AND RELIABILITY

- Rugged design for extremely harsh environments, IP66 even under vibration.
- Optional self-contained battery for emergency lighting applications delivers 25% of standard lumen output for 1.5-hours or 3-hours.



EASY INSTALLATION AND MAINTENANCE

- Retrofit- friendly with optional sliding rail mounting system, allowing brackets to be easily adjusted to existing mounting holes.
- Self-monitoring status battery indicator makes easy for maintenance check.
- Inhibit switch comes as standard for our emergency fitting which is suitable for offshore unmanned platform application.



LATEST POLE MOUNTING

- Strengthened reliability with build-in cable gland and no-exposed cables
- No sideways rotation with strong resistance to heavy winds
- Externally accessible Ex e chamber for easy termination

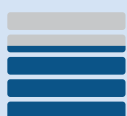
LED vs. fluorescent savings at a glance

Why are so many facilities making the switch from fluorescent to LED?
The numbers say it all.

VLL-5L vs. 2 x 36 W Fluorescent



40%
REDUCTION IN
ENERGY COSTS



66%
LOWER TOTAL
COST OF OWNERSHIP



100%
LAMP MAINTENANCE
REDUCTION

VLL LED GRP linear luminaires

Standard materials

- Enclosure-Glass Fiber Reinforced Plastic (GRP)
- Diffuser-Polycarbonate (PC)
- Gaskets-Silicone
- Fasteners-All external fasteners stainless steel
- Safety switch as standard

LED system:

- As standard 5000K and 4000K
- All series feature field replaceable LED modules
- Fog diffuser with glare protection as standard
- Rated life of 5 years at 55°C provides long term, low-maintenance operation.

Certifications and compliances

- Marking accd.to IECEx (versions with safety switch)
Ex db eb mb IICT5 Gb
Ex db eb ib mb IICT5 Gb (EM)
Ex tb IIIC T80°C Db
- Marking accd.to ATEX (versions with safety switch)
II2G Ex db eb mb IICT5 Gb
II2G Ex db eb ib mb IICT5 Gb (EM)
II2D Ex tb IIIC T80°C Db



Technical data

IECEx-certification		IECEx NEP 21.0020X
EU-type examination certificate		SEV 24ATEX 0708X
Ambient temp	standard	-40 °C ... 55 °C
	emergency:	-25 °C ... 55 °C
Rated input volt		100 - 240 V AC 50/60 Hz, DC 105 - 250 V
Power factor		>0.9
Color Temperature		5000 K and 4000 K as standard
CRI		CRI 80 4000 K / 5000 K
System watt*		VLL 3L series: <25 W
		VLL 5L series: <50 W
		VLL 7L series: <58 W
Lumen output		VLL 3L series: 3100 lm
		VLL 5L series: 6400 lm
		VLL 7L series: 7400 lm
Material		GRP and PC
Weight		VLL 3L series Normal and EM: 4.3Kg / 5.8Kg
		VLL 5L / 7L series Normal and EM: 7.5Kg / 9.8Kg
Terminals		Max 6 mm ²
Entry size		M20 or M25
Out line dimension		VLL 3L series: 732x178x125 VLL 5L / 7L series: 1333x178x125
Backup duration & Lumen percentage		EM1 = 1.5 h, 25% output as standard version
		EM2 = 3 h, 25% output is available
IP(IEC60529)		IP66

*Tolerance+/-5%

VLL LED GRP linear luminaires

Ordering Information standard version

Product Type	Colour Temp ¹⁾	Throughwiring ²⁾			Entry Threaded	Ex e Threaded Plug ³⁾	Part No. ⁴⁾
		Terminals	Single-ended	Twin-ended			
VLL 3L							
VLL-3L-50-1/6-120	5000K	1x6	●	-	2xM20	1	CCL2004125C50AE
VLL-3L-50-2/6-220		2x6	-	●	4xM20	2	CCL2004129C50AE
VLL-3L-50-1/6-125		1x6	●	-	2xM25	1	CCL2004127C50AE
VLL-3L-50-2/6-225		2x6	-	●	4xM25	2	CCL2004131C50AE
VLL 5L							
VLL-5L-50-1/6-120	5000K	1x6	●	-	2xM20	1	CCL2004173C50AE
VLL-5L-50-2/6-220		2x6	-	●	4xM20	2	CCL2004177C50AE
VLL-5L-50-1/6-125		1x6	●	-	2xM25	1	CCL2004175C50AE
VLL-5L-50-2/6-225		2x6	-	●	4xM25	2	CCL2004179C50AE
VLL 7L							
VLL-7L-50-1/6-120	5000K	1x6	●	-	2xM20	1	CCL2004221C50AE
VLL-7L-50-2/6-220		2x6	-	●	4xM20	2	CCL2004225C50AE
VLL-7L-50-1/6-125		1x6	●	-	2xM25	1	CCL2004223C50AE
VLL-7L-50-2/6-225		2x6	-	●	4xM20	2	CCL2004227C50AE

Ordering Information emergency version

Product Type	Colour Temp ¹⁾	Throughwiring ²⁾			Entry Threaded	Ex e Threaded Plug ³⁾	Part No. ⁴⁾
		Terminals	Single-ended	Twin-ended			
VLL 3L Emergency							
VLL-3L-50-EM1-1/6-120	5000K	1x6	●	-	2xM20	1	CCL2004133C50AE
VLL-3L-50-EM1-2/6-220		2x6	-	●	4xM20	2	CCL2004137C50AE
VLL-3L-50-EM1-1/6-125		1x6	●	-	2xM25	1	CCL2004135C50AE
VLL-3L-50-EM1-2/6-225		2x6	-	●	4xM25	2	CCL2004139C50AE
VLL 5L Emergency							
VLL-5L-50-EM1-1/6-120	5000K	1x6	●	-	2xM20	1	CCL2004181C50AE
VLL-5L-50-EM1-2/6-220		2x6	-	●	4xM20	2	CCL2004185C50AE
VLL-5L-50-EM1-1/6-125		1x6	●	-	2xM25	1	CCL2004183C50AE
VLL-5L-50-EM1-2/6-225		2x6	-	●	4xM25	2	CCL2004187C50AE
VLL 7L Emergency							
VLL-7L-50-EM1-1/6-120	5000K	1x6	●	-	2xM20	1	CCL2004229C50AE
VLL-7L-50-EM1-2/6-220		2x6	-	●	4xM20	2	CCL2004233C50AE
VLL-7L-50-EM1-1/6-125		1x6	●	-	2xM25	1	CCL2004231C50AE
VLL-7L-50-EM1-2/6-225		2x6	-	●	4xM25	2	CCL2004235C50AE

¹⁾ Tolerance +/- 10%

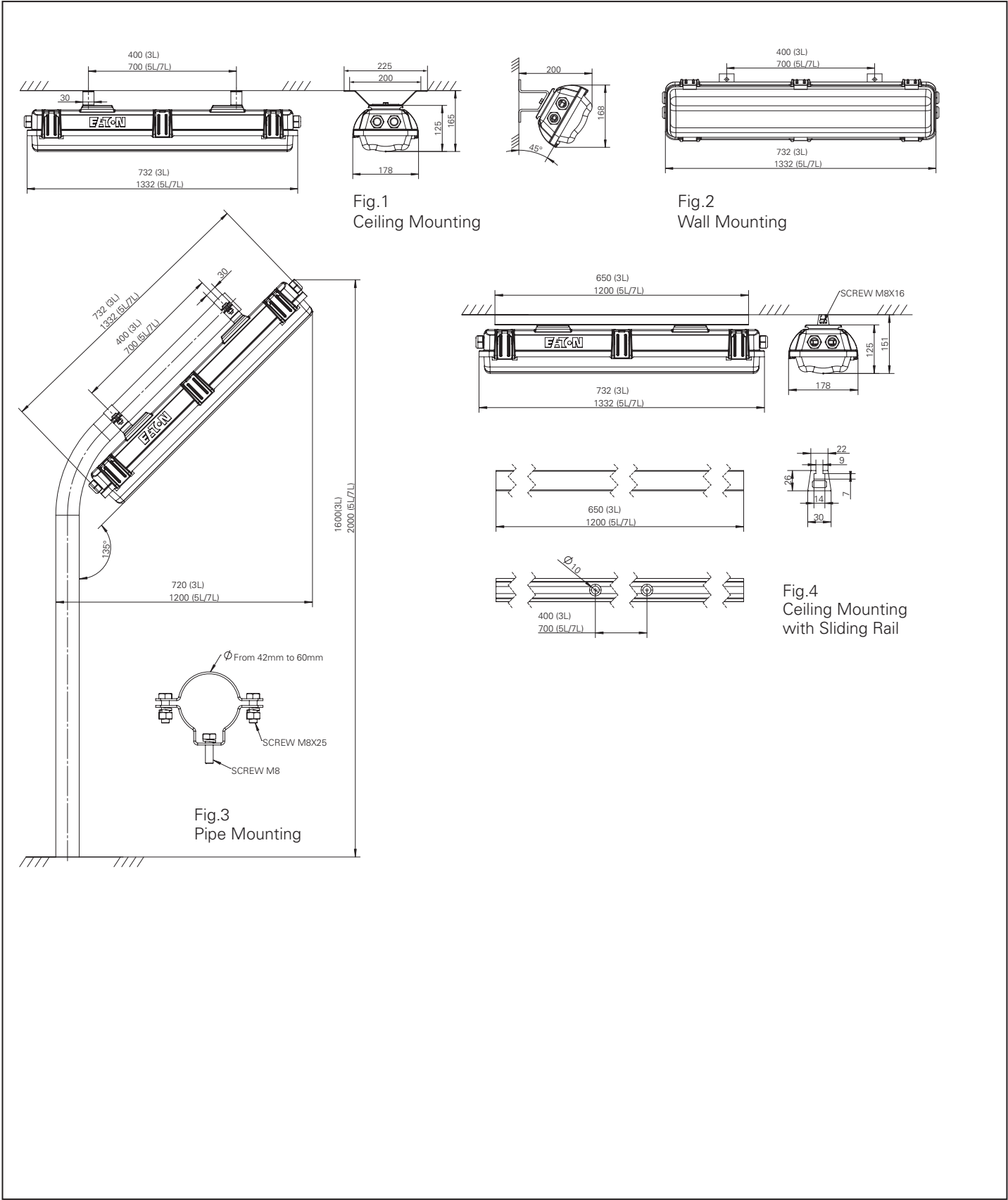
²⁾ Through wiring 6 x 2.5 mm²

³⁾ Standard version without cable gland. if need, please order separately

⁴⁾ Contact your local sales representative for special requirements.

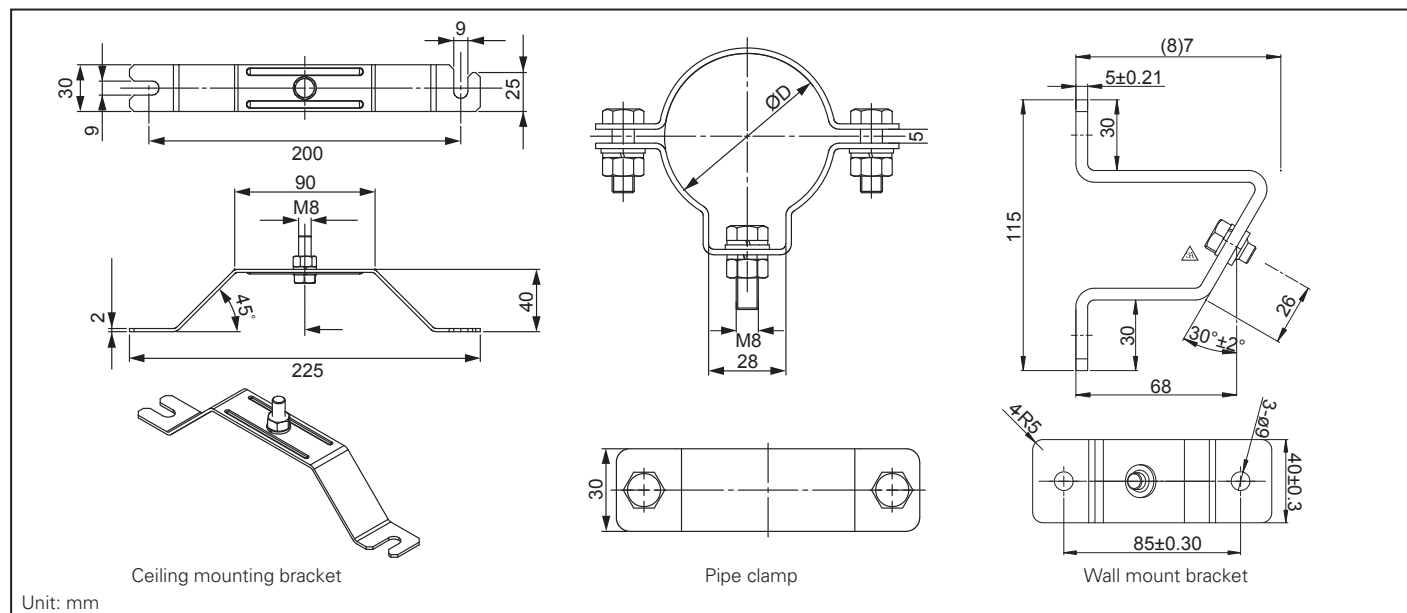
VLL LED GRP linear luminaires

Dimensions (mm)



VLL LED GRP linear luminaires

Mounting accessories (To be ordered separately)



Pipe mounting

Part No	Description	Quantity per luminaire
NOR000005110605	VLL/HLL Pipe clamp assy D42 304S/S	2
NOR000005110600	VLL/HLL Pipe clamp assy D51 304S/S	2

Wall mounting

Part No	Description	Quantity per luminaire
NOR000005110602	VLL/HLL Wall suspension 304S/S	2

Ceiling mounting

Part No	Description	Quantity per luminaire
NOR000005110601	VLL/HLL Ceiling mounting 304S/S	2
CHLMT2372-01	Mounting sliding rail for 3L	1
CHLMT2372-02	Mounting sliding rail for 5L/7L	1

Metallic Cable Glands (Order Separately)

ADE-1F2

Catalog #	Metric Thread Size	Cable Types	Cable sealing range - Min	Cable sealing range - Max
ADE1M201NPN	M20	Non-armoured,	4.5	8.5
ADE1M202NPN	M20	Marine shipboard, Type P, Tray cable	7.0	12.0
ADE1M203NPN	M20	(armoured)	10.0	16.0



ADE-4F

Catalog #	Metric Thread Size	Cable Types	Cable sealing range inner sheath		Cable sealing range outer sheath		Armor	
			Min.	Max.	Min.	Max.	Min.	Max.
ADE4M201NPN	M20	SWA, SWB, STA,	4.5	8.0	7.0	12.0	0.2	0.9
ADE4M202NPN	M20	Braided marine shipboard, Type P; Leadsheathed cable (with addition of earthing washer)	7.0	12.0	10.0	16.0	0.2	1.3
ADE4M203NPN	M20		10.0	15.5	13.5	21.0	0.2	1.3



ADE-1F2 and ADE-4F catalog numbers are for nickel-plated brass; For other material options, please contact our sales representative.

Polar curve

