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





Safe. Reliable. Efficient.



Features & specifications

The Zone 1 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	2×18 W
VLL-5L	6400	<50 W	>130~Lm/W	2X36W
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.

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~Im/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.

X 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 LAMP MAINTENANCE REDUCTION

100%

^{*}Tolerance+/-10%

Standard materials

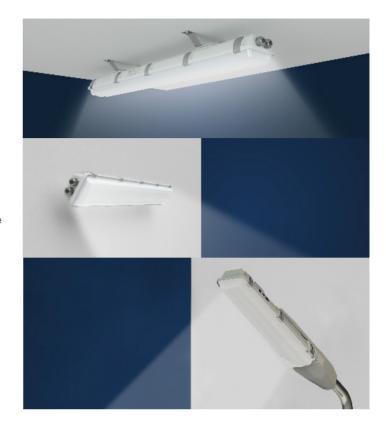
- Enclosure-Glass Fiber Reinforced Plastic (GRP)
- Diffuser-Polycarbonate (PC)
- Gaskets-Silicone
- Fasteners-All external fasteners stainless steel
- Safety switch as standard

LED system:

- Cold white 5700K
- Optional: 4000K, 5000K
- 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 IICT5Gb (EM)
 Ex tb IIICT80°C Db
- Marking accd.to ATEX (versions with safety switch)
 - ® II2 G Ex db eb mb IIC T5 Gb
 - © II2 G Ex db eb ib mb IIC T5Gb (EM)



Technical data

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IECEx-certification		IECEx NEP 21.0020X					
EU-type examination	on certificate	SEV 24ATEX 0708X	SEV 24ATEX 0708X				
Ambient temp	standard	VLL 3L, 5L, -40 °C 55 °C	VLL 7L -40 °C 50 °C				
	emergency:	VLL 3L, 5L, -25 °C 50 °C	VLL 7L -25 °C 45 °C				
Rated input volt		100 - 240 V AC 50/60 Hz,	DC 108 - 250 V				
Power factor		>0.9					
Color Temperature		5700 K as standard	4000 K / 5000 K optional				
CRI		CRI 70 5700 K	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 EN	1: 7.5Kg / 9.8Kg				
Terminals		Max 6 mm²					
Entry size		M20 or M25					
Out line dimension		VLL 3L series: 732x178x125	VLL 5L /7L series:1333x178x125				
Backup duration & l	Lumen percentage	EM1 = 1.5 h,25% output as sta	EM1 = 1.5 h,25% output as standard version				
		EM2 = 3 h, 25% output is availa	able				
IP(IEC60598)		IP66					
*Tolerance+/-5%							

Ordering Information standard version

		Throughwiring ²⁾				Ex e	
Product Type	Colour Temp ¹⁾	Terminals	Single-ended	Twin-ended	Entry Threaded	Threaded Plug ³⁾	Part No. ⁴⁾
VLL 3L							
VLL-3L-57-1/6-120		1x6	•	-	2×M20	1	CCL2004125AE
VLL-3L-57-2/6-220	5700K	2x6	-	•	4xM20	2	CCL2004129AE
VLL-3L-57-1/6-125	3700K	1x6	•	-	2×M25	1	CCL2004127AE
VLL-3L-57-2/6-225		2x6	-	•	4xM25	2	CCL2004131AE
VLL 5L							
VLL-5L-57-1/6-120		1x6	•	-	2xM20	1	CCL2004173AE
VLL-5L-57-2/6-220	5700K	2x6	-	•	4×M20	2	CCL2004177AE
VLL-5L-57-1/6-125	5700K	1x6	•	-	2xM25	1	CCL2004175AE
VLL-5L-57-2/6-225		2x6	-	•	4xM25	2	CCL2004179AE
VLL 7L							
VLL-7L-57-1/6-120		1x6	•	-	2xM20	1	CCL2004221AE
VLL-7L-57-2/6-220	— — 5700K —	2x6	-	•	4×M20	2	CCL2004225AE
VLL-7L-57-1/6-125		1x6	•	-	2xM25	1	CCL2004223AE
VLL-7L-57-2/6-225		2x6	-	•	4xM20	2	CCL2004227AE

Ordering Information emergency version

		Throughwiring ²⁾				Ex e	
Product Type	Colour Temp ¹⁾	Terminals	Single-ended	Twin-ended	Entry Threaded	Threaded Plug ³⁾	Part No. ⁴⁾
VLL 3L Emergency							
VLL-3L-57-EM1-1/6-120		1x6	•	-	2xM20	1	CCL2004133A
VLL-3L-57-EM1-2/6-220	- E700V	2x6	-	•	4xM20	2	CCL2004137A
VLL-3L-57-EM1-1/6-125	– 5700K	1x6	•	-	2xM25	1	CCL2004135A
VLL-3L-57-EM1-2/6-220	_	2x6	-	•	4xM25	2	CCL2004139A
VLL 5L Emergency							
VLL-5L-57-EM1-1/6-120		1x6	•	-	2xM20	1	CCL2004181A
VLL-5L-57-EM1-2/6-220	- E700V	2x6	-	•	4xM20	2	CCL2004185A
VLL-5L-57-EM1-1/6-125	— 5700K	1x6	•	-	2xM25	1	CCL2004183A
VLL-5L-57-EM1-2/6-225	_	2x6	-	•	4xM25	2	CCL2004187A
VLL 7L Emergency							
VLL-7L-57-EM1-1/6-120		1x6	•	-	2×M20	1	CCL2004229A
VLL-7L-57-EM1-2/6-220	— 5700K —	2x6	-	•	4xM20	2	CCL2004233A
VLL-7L-57-EM1-1/6-125		1x6	•	-	2xM25	1	CCL2004231A
VLL-7L-57-EM1-2/6-225		2x6	-	•	4×M25	2	CCL2004235A

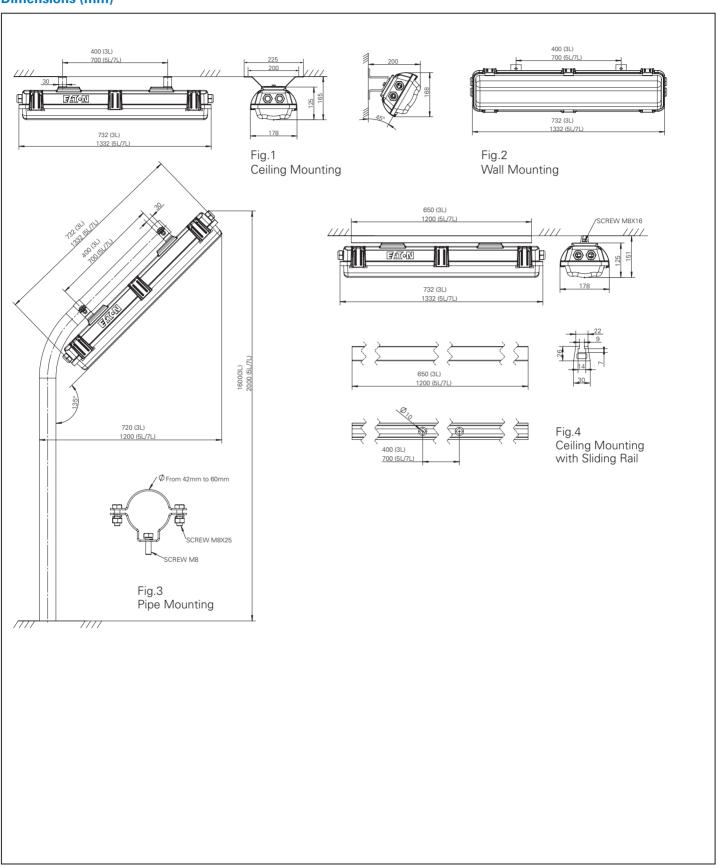
¹⁾ Tolerance +/- 10%

²⁾ Through wiring 6 x 2.5 mm²

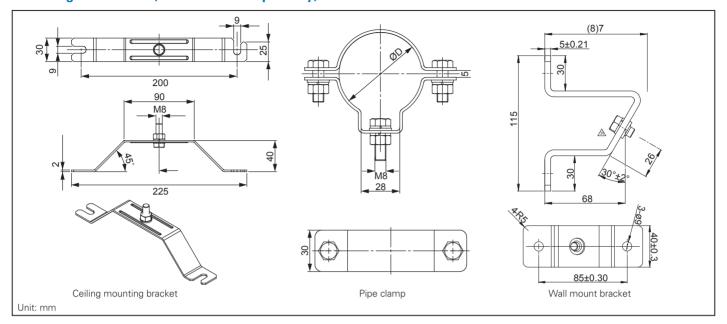
³⁾ Standard version without cable gland. if need, please order separately

⁴⁾ Contact your local sales representative for special requirements.

Dimensions (mm)



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

Cable sealing range Cable sealing range

Metallic Cable Glands (Order Separately)

ADE-1F2

Catalog #	Metric Thread Size	Cable Types	Cable sealing range - Min	Cable seaing 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



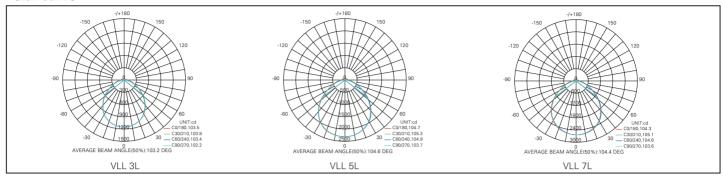
ADE-4F

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			inner sheath		outer sheath		Armor	
Catalog #	Metric Thread Size	Cable Types	Min.	Min. Max.		Max.	Min.	Max.
ADE4M201NPN	M20	SWA, SWB, STA, — Braided marine shipboard,	4.5	8.0	7.0	12.0	0.2	0.9
ADE4M202NPN	M20	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



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