Explosion protected linear light fixture

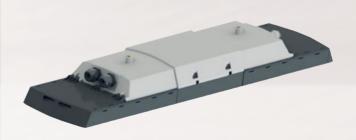
CROUSE-HINDS SERIES

CEAG ExLin

LED linear fixtures for hazardous areas











Introducing CEAG ExLin

A linear LED engineered for use in Zone 1 and 2 hazardous areas.

CEAG ExLin delivers longer life, improved efficiency and superior performance with a competitive payback vs. fluorescent fixtures.



The following CEAG ExLin models will replace 2x18W, 2x36W and 2x58W fluorescent fixtures

Model	Typical lumens with clear glass lens	Wattage	Lumens per watt	Equivalent fluorescent luminaire	Typical energy savings / lifetime
ExLin 3L-1	2,750	22W	125	2 x 18 W	> 40%
ExLin 5L-1	5,300	44W	120	2 x 36 W	> 40%
ExLin 7L-2	8,120	67W	121	2 x 58W	> 40%

Applications:

- Designed to provide general illumination where moisture, dust, corrosion, and extreme temperature exist
- Areas requiring frequent on-and-off of lights
- Oil and gas refineries, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, outdoor wall and stanchion mounted general area lighting, and where flammable vapors and gases are present.

Why CEAG ExLin LED?

Safe, reliable, efficient. CEAG ExLin fixtures combine state-of-the-art LED technology with optimised thermal management and a time-tested enclosure to extend service life in extreme environments.



Superior performance and efficiency

- Replaces 2x18W, 2x36W and 2x58W fluorescent fixtures
- Rated life of 100,000 hours at 25°C based on L90C5 provides long term, low-maintenance operation
- Up to 120 LM/W provides up to 40% energy efficiency compared to traditional fluorescent fixtures
- Operating temperature from -40°C to +55°C

Optimised light distribution with optics and lens options

- Standard, narrow and wide beam optics optimise light distribution, providing light where the customer needs it with the potential to reduce the number of fixtures required
- Clear or diffused (frosted) lens available in glass provides application flexibility

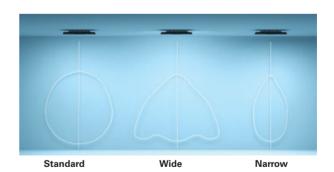
Low profile and lightweight design with drop in mounting compatibility to CEAG eLLK fluorescent

- Decreases footprint in confined applications and reduces installation effort
- Same fixing point as eLLK 2x18W fixtures and a mounting kit available allowing for easy replacement of 2x36W and 2x58W without changing cables

State-of-the-art LED technology coupled with a long history of hazardous area lighting design expertise

- Enclosure material is time-tested and field-proven for durability in harsh and hazardous applications globally
- Optimised thermal management for extending service life in extreme environments







CEAG ExLin technical specifications:

Certifications and compliances:

IECEx / ATEX Standards:

EC-Type Examination Certificate

• BVS 18 ATEX E 037 X

IECEx-Certification of conformity

• IECEx BVS 18.0028X

Marking accd. to 2014/34/EU

• Ex II 2 G Ex eb ib op is g IIC T4 Gb

Marking accd. to IECEx

• Ex eb ib op is a IIC T4 Gb

Permissible ambient temperature, depending on configuration

• -40 °C up to +55 °C with glass cover*

Degree of protection accd. to EN 60529

IP66

IK-class according to IEC/EN 62262

• IK10

*) up to +45°C for 3L-1 with through wiring and plastic cable glands, up to +40°C for 5L-1 and 7L-2 with through wiring and plastic cable glands



LED system:

- Light colour / CRI: 5000K / 70 (80 on request)
- Optics: Standard, narrow beam, wide beam. Consult factory for narrow and wide beam availability

Standard materials:

- Fixture enclosure Glassfibre reinforced polyester
- Fixture lens toughened glass, clear or opaque

Fixture life (IEC 62722):

LED

- L90 \sim 100,000 h at ta = +25 °C
- L85 \sim 75,000 h at ta = +55 °C

Control gear

- C5 \sim 100,000 h at ta = +25 °C
- C10 \sim 75,000 h at ta = +55 °C

Dimensions and weights:

ExLin 3L-1 and 5L-1

- 770x201x115 mm
- 6.7 kg

ExLin 7L-2

- 931x201x115 mm
- 8.0 kg

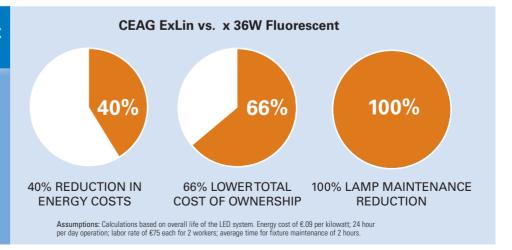
Electrical ratings:

Model	ExLin 3L-1	ExLin 5L-1	ExLin 7L-2		
Voltage	110 up to 277 V AC/DC	110 up to 277 V AC/DC	110 up to 277 V AC/DC		
Power consumption	22W	44W	67W		
Lumens (clear glass cover)	2750	5300	8120		
Lumens (frosted glass cover)	2370	4580	6920		
Frequency	0/50 - 60 Hz	0/50 - 60 Hz	0/50 - 60 Hz		
Power factor cos φ @ 230 V	≥ 0.92	≥ 0.95	≥ 0.95		
Circuit	EVG	EVG	EVG		
Protection class	I	I	I		
Immunity to surge voltages according to EN6100-4-5	4 kV, L-N and L-PE	4 kV, L-N and L-PE	4 kV, L-N and L-PE		

LED vs. fluorescent savings at a glance

Why are so many facilities making the switch from fluorescent to LED?

The numbers say it all.

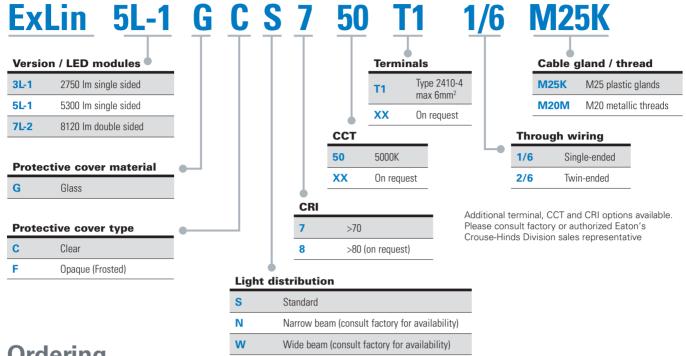


Catalog Numbering System:

Part number example

ExLin 5L-1 G C S 7 50 T1 1/6 M25K

CEAG ExLin linear, 5300 lumens, glass lens, clear lens, standard light beam, >70 CRI, 5000K, Type 2410-6 terminals, single-ended wiring, M25 plastic cable gland



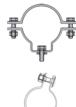
Ordering information:

Model	Cover type Light Through wiring distribution single-ended twin-end		•	Cable gland/thread	Order No.	
ExLin 3L-1						
ExLin 3L-1 G C S 750 T1 1/6 M25K	Glass, Clear	Standard	Χ		M25 Plastic cable gland	1 2300 120 101
ExLin 3L-1 G C S 750 T1 2/6 M25K	Glass, Clear	Standard		Χ	M25 Plastic cable gland	1 2300 120 103
ExLin 3L-1 G C S 750 T1 1/6 M20M	Glass, Clear	Standard	Х		M20 Metal thread	1 2300 120 109
ExLin 3L-1 G C S 750 T1 2/6 M20M	Glass, Clear	Standard		Χ	M20 Metal thread	1 2300 120 111
ExLin 3L-1 G F S 750 T1 1/6 M25K	Glass, Frosted	Standard	Χ		M25 Plastic cable gland	1 2300 125 101
ExLin 3L-1 G F S 750 T1 2/6 M25K	Glass, Frosted	Standard		Х	M25 Plastic cable gland	1 2300 125 103
ExLin 3L-1 G F S 750 T1 1/6 M20M	Glass, Frosted	Standard	Χ		M20 Metal thread	1 2300 125 109
ExLin 3L-1 G F S 750 T1 2/6 M20M	Glass, Frosted	Standard		Χ	M20 Metal thread	1 2300 125 111
ExLin 5L-1						
ExLin 5L-1 G C S 750 T1 1/6 M25K	Glass, Clear	Standard	Χ		M25 Plastic cable gland	1 2300 140 101
ExLin 5L-1 G C S 750 T1 2/6 M25K	Glass, Clear	Standard		Χ	M25 Plastic cable gland	1 2300 140 103
ExLin 5L-1 G C S 750 T1 1/6 M20M	Glass, Clear	Standard	Х		M20 Metal thread	1 2300 140 109
ExLin 5L-1 G C S 750 T1 2/6 M20M	Glass, Clear	Standard		Χ	M20 Metal thread	1 2300 140 111
ExLin 5L-1 G F S 750 T1 1/6 M25K	Glass, Frosted	Standard	Х		M25 Plastic cable gland	1 2300 145 101
ExLin 5L-1 G F S 750 T1 2/6 M25K	Glass, Frosted	Standard		Х	M25 Plastic cable gland	1 2300 145 103
ExLin 5L-1 G F S 750 T1 1/6 M20M	Glass, Frosted	Standard	Χ		M20 Metal thread	1 2300 145 109
ExLin 5L-1 G F S 750 T1 2/6 M20M	Glass, Frosted	Standard		Χ	M20 Metal thread	1 2300 145 111
ExLin 7L-2						
ExLin 7L-2 G C S 750 T1 1/6 M25K	Glass, Clear	Standard	Х		M25 Plastic cable gland	1 2300 170 101
ExLin 7L-2 G C S 750 T1 2/6 M25K	Glass, Clear	Standard		Χ	M25 Plastic cable gland	1 2300 170 103
ExLin 7L-2 G C S 750 T1 1/6 M20M	Glass, Clear	Standard	Х		M20 Metal thread	1 2300 170 109
ExLin 7L-2 G C S 750 T1 2/6 M20M	Glass, Clear	Standard		Χ	M20 Metal thread	1 2300 170 111
ExLin 7L-2 G F S 750 T1 1/6 M25K	Glass, Frosted	Standard	Х		M25 Plastic cable gland	1 2300 175 101
ExLin 7L-2 G F S 750 T1 2/6 M25K	Glass, Frosted	Standard		Χ	M25 Plastic cable gland	1 2300 175 103
ExLin 7L-2 G F S 750 T1 1/6 M20M	Glass, Frosted	Standard	Χ		M20 Metal thread	1 2300 175 109
ExLin 7L-2 G F S 750 T1 2/6 M20M	Glass, Frosted	Standard		Χ	M20 Metal thread	1 2300 175 111

Mounting Accessories (Order Separately)

Pipe Clamps

Ordering Code	Description
2 2480 462 000 *	2 pcs. R12 (1 1/4"), Ø 38 - 42 mm with screws and polyamide washer, hot-dip galvanized
2 2480 472 000 *	2 pcs. R22 (1 1/2"), Ø 47 - 51 mm with screws and polyamide washer, hot-dip galvanized
2 2480 482 000 *	2 pcs. R32 (2"), Ø 56 - 60 mm with screws and polyamide washer, hot-dip galvanized
NOR 000 005 009 211	1 pcs. A8 (1 1/2") D 47 - 51 mm for AB 12 with screws and polyamide washer, hot-dip galvanized
NOR 000 005 009 229	1 pcs. A9 (2") D 56 - 60 mm for AB 12 with screws and polyamide washer, hot-dip galvanized
2 2480 550 010	2 pcs. Two-part, for pipe mounting LB 48 - FT with screws and polyamide washer, hot-dip galvanized



Fixing Accessories

Ordering Code	Description
2 2480 550 013	2 pcs. luminaire mounting bracket with 30° angle, wall mounting LH 30 - FT, hot-dip galvanized
2 2480 550 014	2 pcs. luminaire mounting bracket with 45° angle, wall mounting LH 45 - FT, hot-dip galvanized
2 2480 000 122	2 pcs. wall mounting bracket with 30° angle, with screws and polyamide washer, hot-dip galvanized
NOR 000 005 009 196	1 pcs. wall bracket 45° with screws and polyamide washer, hot-dip galvanized
2 2483 027 000	1 pcs. wall bracket W 27, 15°, for pole-mounting fitting Ø 42 mm, hot-dip galvanized
2 2480 092 000	2 pcs. ceiling mounting bracket D 92 with screws and polyamide washer, stainless steel
NOR 000 005 009 162	1 pcs. ceiling mounting bracket A5 with screws and polyamide washer, hot-dip galvanized
2 2480 550 011	2 pcs. C-bracket for luminaire mounting LAB-C50 - ER, stainless steel
2 2480 054 000	2 pcs. hexagon screw M8 x 20 for luminaire mounting, with polyamide washer
2 2480 002 000 *	2 pcs. eye bolt M8 for luminaire mounting, hot-dip galvanized
NOR 000 005 009 261	1 pcs. eye bolt M8 - A1 for luminaire mounting, hot-dip galvanized



Metallic Cable Glands (Order Separately)

ADE-1F2

Catalog #	Metric Thread Size	Cable Types	Cable sealing range - Min	Cable seaing range - Max
ADE1M200NPN	M20		2.8	5.5
ADE1M201NPN	M20		4.5	8.5
ADE1M202NPN	M20	Non-armoured,	7.0	12.0
ADE1M203NPN	M20	Marine shipboard, Type P, Tray cable	10.0	16.0
ADE1M251NPN	M25	(armoured)	7.0	12.0
ADE1M252NPN	M25		10.0	16.0
ADE1M253NPN	M25		13.5	20.5



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ADE-4F			Cable sealing range inner sheath		Cable sealing range outer sheath		Armor	
Catalog #	Metric Thread Size	Cable Types	Min.	Max.	Min.	Max.	Min.	Max.
ADE4M200NPN	M20		2.8	5.5	4.5	8.5	0.2	0.9
ADE4M201NPN	M20	CIAIA CIAID CTA	4.5	8.0	7.0	12.0	0.2	0.9
ADE4M202NPN	M20	SWA, SWB, STA,Braided marine	7.0	12.0	10.0	16.0	0.2	1.3
ADE4M203NPN	M20	shipboard, Type P; Lead sheathed cable (with	10.0	15.5	13.5	21.0	0.2	1.3
ADE4M251NPN	M25	addition of earthing washer)	7.0	12.0	10.0	16.0	0.2	1.3
ADE4M252NPN	M25	- vvasiici/	10.0	15.5	13.5	21.0	0.2	1.3
ADE4M253NPN	M25		13.5	20.5	18.0	27.5	0.2	1.6



ADE-1F2 and ADE-4F catalog numbers are for nickel-plated brass; For other material options, refer to our cable glands section within www.crouse-hinds.de/en/

^{*} Also available in stainless steel. Consult factory for ordering code.

Dimensions and Weights:

CEAG ExLin fixtures are designed with the same fixing point as Crouse-Hinds series CEAG eLLK 2x18W fixtures, making retrofits simple and cost-effective.

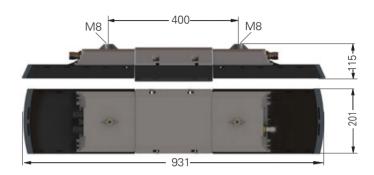
A mounting kit is available allowing for easy replacement of 2x36W and 2x58W without changing cables. Consult factory for availability.

CEAG ExLin 3L-1 and 5L-1:

M8 400 M8 100 M8

Weight: 6.7 kg

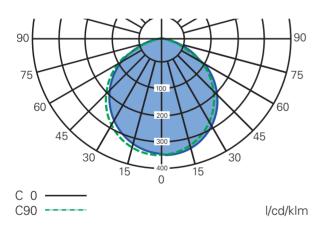
CEAG ExLin 7L-2:



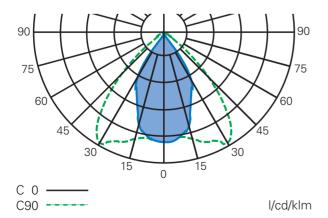
Weight: 8.0 kg

Polar Curves:

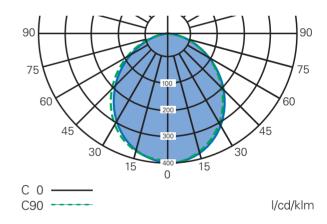
CEAG ExLin standard beam with clear cover



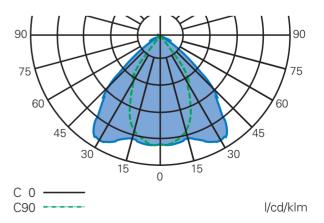
CEAG ExLin narrow beam



CEAG ExLin standard beam with frosted cover



CEAG ExLin wide beam



Eaton's Crouse-Hinds Division

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