



Wolf ATEX LinkEx LED Temporary Luminaire

Operation and Maintenance Instructions

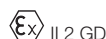
Please Retain – Read Before Use

EU Declaration of Conformity

The Wolf ATEX LX-400 LinkEx LED Temporary Luminaire meets all relevant provisions of the 2014/34/EU Explosive Atmospheres (ATEX Equipment) Directive by virtue of the issued EC type examination certificate, and subsequent review, confirms compliance with all relevant harmonised standards and essential health and safety requirements.

The Wolf ATEX LinkEx LED Temporary Luminaire is a leadlamp with a durable enclosure construction of polycarbonate with polyurethane protective rings. Models are available in a variety of input voltages. Approval is as Group II, Category 2 equipment for use in zone 1 & 2 potentially explosive gases, vapours, mists and dusts where the T3 temperature class/170°C maximum surface temperature permits.

Certification/Approval Code:



Ex emb IIC T3 Gb (-20°C to +40°C)

Ex t IIIC T170°C Db IP67

Some variants of plugs/sockets may reduce the IP (Ingress Protection) rating, e.g. ATX and CEAG IP66, Stahl Sockets IP54 rated.

EC Type examination certificate: **SIRA12ATEX3177X**

Notified Body: Baseefa Ltd. Rockhead Business Park,
Staden Lane, Buxton, SK17 9RZ, UK

Notified body number: **1180**

Harmonised standards applied: EN60079-0:2012 +A11:2013, EN60079-7:2015, EN60079-18:2015, EN60079-31:2014

Ingress protection level **IP67** to EN60529:1992

ATEX LinkEx LED Leadlamps are certified compliant with the 2014/30/EU EMC Directive to the harmonised standards:- EN 55015: 2013*, EN 61547: 2009.

Alex Jackson – Managing Director,
Wolf Safety Lamp Company Ltd.

IECEx Scheme Certification

Certificate number: **IECEx SIR 12.0070X**

Certification/Approval Code:

Ex emb IIC T3 Gb (-20°C to +40°C)

Ex t IIIC T170°C Db IP67

Standards applied: IEC60079-0:2011-06, IEC60079-7:2015-06, IEC60079-18:2015, IEC60079-31:2013

Ingress protection level **IP67** to IEC60529:1992

IMPORTANT: SPECIAL CONDITIONS OF USE (X)

1. The user/installer shall ensure that, when the Luminaire is fitted with a previously certified plug that has associated special conditions for safe use, they shall take into account any restrictions or conditions for safe use that are applicable to these devices.
2. Linkable lamps fitted with Marechal sockets are certified for low impact risk use only, do not expose to shocks greater than 4 joules.

EQUIPMENT USE

1. Read this document carefully before first use of the LinkEx LED and retain for future reference.
2. Check the rating label to ensure the LinkEx LED leadlamp is suitable for the supply provided, ambient temperature present and the environmental conditions.
3. In areas where processes that induce circulating currents in the earth system are being undertaken, such as welding, it is the user's responsibility to ensure there is no potential difference between the supply earth and the earth local to the luminaire. If a potential difference exists there is a risk of arcing should the lamp's end cap fixings or metal gland come into contact with local metal work. In these situations, the luminaire should also be locally earth bonded with a flexible cable, no longer than 2 metres, with a conductor area of 6mm² minimum. The luminaire must be de-energised during connection or disconnection of the local earth bond. An external Earth Bonding Stud is available in the spares list and can be retro fitted in place of one of the end cap retaining screws.
4. **Safe Operating Voltage Indicator (SOVI).** The internal approval label highlights a coloured flashing indicator LED fitted to the LED driver. When the lamp is energised the LED will flash GREEN to indicate the supply voltage is within certification limits. The lamp should not be used if the indicator is flashing RED,

a fast flashing RED LED indicates the supply voltage is too low, a slow flashing RED LED indicates the supply voltage is too high. Red indication may be due to an incorrect supply voltage or too many lamps being linked together. If connecting a large number of lamps check the indicator on all the lamps in the string. Guidance on lamp connection and extensions can be found on the Wolf website:- www.wolf-safety.co.uk.

5. The LinkEx LED leadlamp enclosure is constructed from polycarbonate, the end user must ensure suitability for the atmosphere the LinkEx LED leadlamp will be used in.
6. The LinkEx LED leadlamp is class 1 earthed electrical equipment, using 3 core cable.
7. Ex e terminal blocks must have all terminals fully tightened down even if a conductor is not fitted. On the six way terminal block, tighten screws to 0.6Nm, on the 4 way terminal block tighten to 1.8Nm.
8. ATEX/IECEx certified cable glands must be used and be suitable for the type of cable used.
9. Ensure cable is rated for the ambient temperature the LinkEx LED leadlamps will be used in, standard SY cable is not rated for use below 0°C.
10. Inspect cable at regular intervals.
11. Damaged equipment should be withdrawn and repaired as necessary before being put back in to service, in accordance with EN60079-17.
12. Lamps must not be opened in Hazardous Areas.
13. When the LinkEx LED leadlamp is used in temporary installations two mounting points must be used, see Wolf clamp rings and associated accessories.
14. LinkEx LED leadlamps can be carried whilst energised/illuminated.

MAINTENANCE

1. Isolate the LinkEx LED leadlamps from the power supply before carrying out any maintenance work.
2. To replace LED strip, replace entire tray (see spares list).
3. External plastic components have an anti static coating. Use only a dilute water/detergent mix to clean.
4. **IMPORTANT.** No modifications are permitted to the LinkEx LED leadlamps, all spare parts must be purchased from the manufacturer, unauthorised modifications or spare parts will invalidate certification.

ELECTRICAL DATA

Total circuit power is LV: 24Volt DC = 25Watt, 24Volt AC = 28Watt, 43VA.
Mains: 110Volt = 28Watt, 230Volt = 31Watt. Power factor correction better than 0.938.
Maximum current on a linked lamp configuration not to exceed 16A. HV insulation testing must be carried out at voltages less than 500V DC, live and neutral cables **must** be shorted together and the voltage applied between earth and this connection.

CHANGING CABLE OR SOCKETS

See attached diagrams.

Remove the two securing screws from the cable entry end plate, remove end plate. Disconnect the input cable. To remove the enclosure tube, slide tube over the tray assembly. With the tube removed the blank plate (non linkable Luminaire) or socket and plate (linkable Luminaire) can be removed by removing the two internal screws; care must be taken to retain the sealing washers fitted to the screws and dome nuts. If required the socket plate can then be removed, if the socket is replaced ensure correct sealing washers are used. Re-assembly is the reverse procedure. Take care not to trap/crush wires, ensure all seals are present and in good condition.

FAULT FINDING

If a LinkEx LED leadlamp fails to function, check input cable continuity and terminations. If satisfactory, test the output fuse to each LED strip. Only replace with Wolf encapsulated fuse of the correct rating. If one fuse fails on the LV driver output, both fuses must be replaced at the same time.

SPARE PARTS LIST

See attached diagram.

DISPOSAL OF WASTE MATERIAL

Disposal of packaging, LinkEx LED products, old LED trays and drivers should be carried out in accordance with national regulations. (WEEE)

The Wolf Safety Lamp Co. Ltd has a policy of continuous product improvement. Changes in design details may be made without prior notice.

Prices and design are subject to alteration without notice. All products sold are subject to our conditions of sale. A copy of these instructions with any relevant revisions can be found at www.wolf-safety.co.uk

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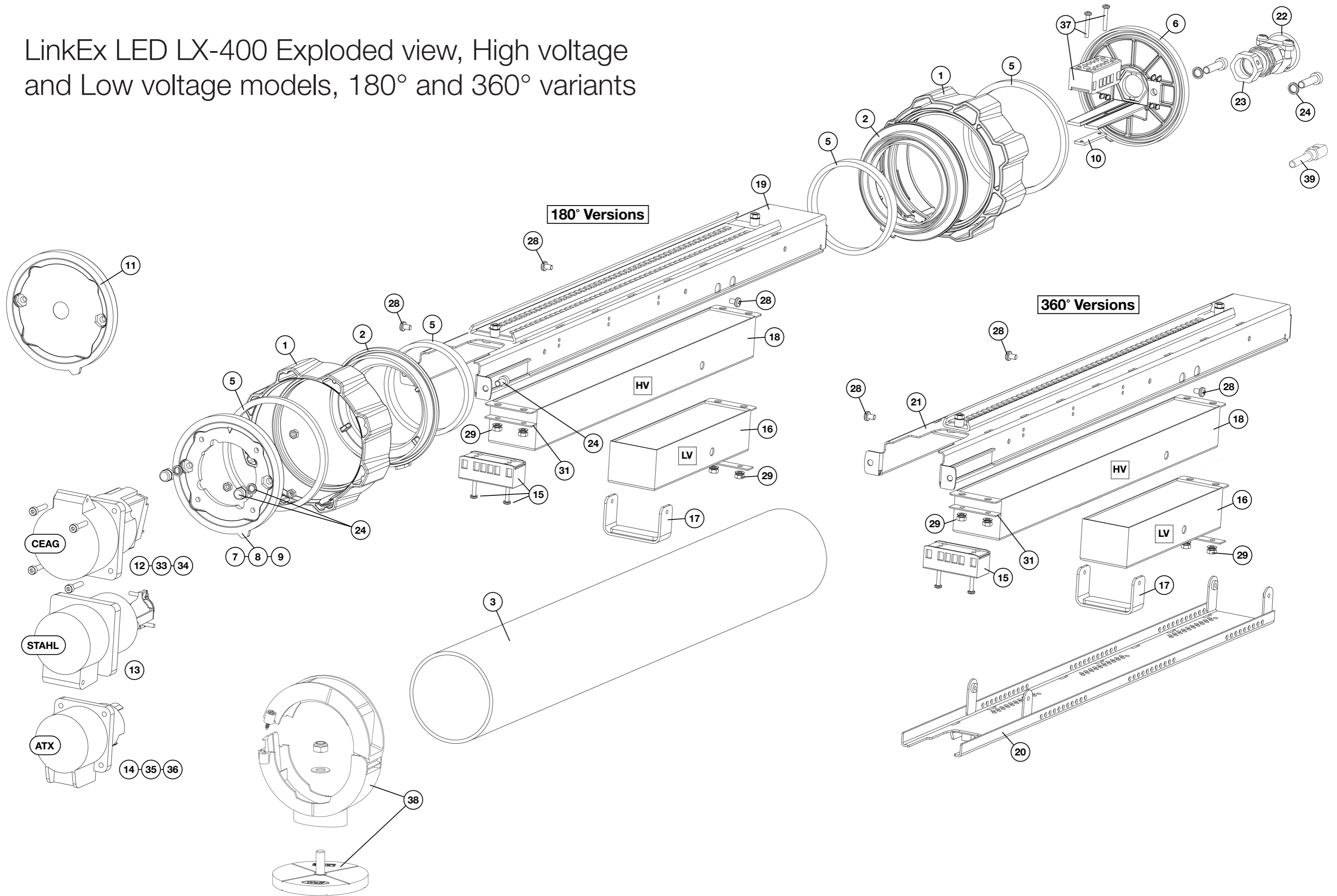
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LinkEx LED LX-400 Exploded view, High voltage and Low voltage models, 180° and 360° variants



Wolf ATEX LinkEx LED Temporary Luminaire

Parts List

Item No.	Part No:	Spare Part Description	Quantity required per lamp	
			180° Models	360° Models
1	LX-602	Bump Ring pack of (pack of 2)	2	2
2	LX-304	Tube Seal Ring	2	2
3	LX-370	Tube	1	1
5	LX-622	Plate Seal 5mm and Tube Seal 10mm (1 off of each, for one end of the lamp)	2	2
6	LX-306	Cable Entry End Cap	1	1
7	LX-312	ATX Socket Plate	1	1
8	LX-314	Stahl Socket Plate	1	1
9	LX-310	CEAG Socket Plate	1	1
10	LX-385	Terminal Block Backing Plate	1	1
11	LX-316	Blank End Cap Non Link	1	1
12	LL-387	Ceag Socket 110 Volt	1	1
13	LL-1080	Stahl socket 110 volt	1	1
14	LL-1092	ATX Socket 110 Volt	1	1
15	LX-684	Ex e 6 Way Weidmuller terminal block and screws M3x20, LED output	1	1
16	LX-624	Low Voltage Driver	1	1
17	LX-348	Strap for LV Drivers	1	1
18	LX-640	High Voltage Driver	1	1
19	LX-618	180 LED Strip Assembly and tray	1	
20	LX-636	360 LED top tray assembly		1
21	LX-637	360 LED Bottom tray assembly		1
22	LL-311	Trumpet Gland	1	1
23	LX-608	Gland Nut	1	
24	LX-658	Dowty Seal M6, M6x30 screws. M5 Dometnut, M5 Dowty Seal, M5x12 Cap head, 2 of each	2	2
28	LX-672	M4x5 Pan, pack of 4	4	6
29	LX-673	M4 Nyloc nut pack of 4	4	4
31	LX-368	Driver mount brace	1	1
33	LL-1048	CEAG socket 230 volt	1	1
34	LL-1054	CEAG socket 24 volt	1	1
35	LL-1087	ATX socket 230 volt	1	1
36	LL-378	ATX socket 24 volt	1	1
37	LX-656	Weidmuller MK6 4 way terminal block and screws M3x22, Cable input	1	1
38	LX-680	Magnet Bracket Kit (pack of 2)	1	1
39	LX-1258	M6 External Earth Bonding Stud	1	1
Items not shown on the exploded diagram				
	LX-691	1 amp LED fuse, pack of 2	1	1
	LX-654	Shoulder Strap pack of 2	1	1
	LX-545/3	Pack of 3 Protective Films	1	1

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