LINKEX™ LED FLOODLITE WF-300®XL

Link**Ex** light



EU Declaration of Conformity

The Wolf WF-300XL LED Floodlite meets all relevant provisions of the 2014/34/EU Explosive Atmospheres (ATEX Equipment) Directive by virtue of the issued EU Type Examination Certificate, demonstrating compliance with all relevant Harmonised Standards and Essential Health and Safety Requirements.

The Wolf WF-300XL LED Floodlite is a high performance lightweight portable floodlight, constructed from marine grade aluminium with a powder coated finish and toughened glass lens. The Floodlite is Group II, Category 2 equipment for use in zone 1, 2, 21 and 22 potentially explosive gases, vapours, mists and dusts where the T4 temperature class/118°C maximum surface temperature permits.

Approval Code:



II 2GD Ex eb mb op is IIC T4 Gb (-40°C≤Ta≤+55°C) Ex tb op is IIIC T118°C Db.

Ensure any replacement cable is rated for the lower ambient temperature the product will be used in and a +80°C minimum upper rating.

EU Type Examination Certificate: Sira17ATEX3035X

Notified Body: SGS 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 IP66 & IP67 to EN60529:1992.

Wolf WF-300XL LED Floodlites are manufactured in accordance with the 2014/30/EU EMC Directive to the following standards:- EN 55015:2013+A1 2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61547:2009.

Alex Jackson – Managing Director, Wolf Safety Lamp Company Ltd

IECEx Scheme Certification

Certificate Number: IECEx SIR 17.0013X Ex eb mb op is IIC T4 Gb $[-40^{\circ}C \le Ta \le +55^{\circ}C]$ Ex tb op is IIIC T118°C Db IP67 IEC Standards applied: IEC60079-0:2011, IEC60079-7:2015, IEC60079-18:2014, IEC60079-28:2015 & IEC60079-31:2013.

SPECIAL CONDITIONS OF USE (X CONDITION)

 The enclosure's coated surfaces are non-conducting and may generate an ignition-capable level of electrostatic charge under certain extreme conditions. The user shall ensure that the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on non-conductive surfaces. Additionally, the equipment shall only be cleaned with a damp cloth.

Equipment Use

- Check the rating label to ensure the Floodlite is suitable for the supply provided, ambient temperature present and the environmental conditions.
- It is the user's responsibility to ensure there is no potential difference between the earth supply to a Floodlite unit and the local earth in the work area.
 Where this is not possible the equipment should be securely earth bonded to metalwork in the immediate vicinity of where the Floodlite is being used. A flexible cable is recommended (6mm² minimum, no more than two metres long), connected to the earth grounding point on the Floodlite enclosure. Floodlites must be de-energised during connection or disconnection of the local earth bond.
- Safe/Optimal Voltage Indicator (SOVI). The Wolf WF-300XL LED Floodlite incorporates SOVI technology to highlight to the user if the product is operating outside of the certified maximum and recommended minimum voltage range.
- The diagram below represents the SOVI function, it demonstrates that when the voltage is not within the "Safe/Optimal Voltage" the light output will change from a constant uninterupted beam to a pulse.



SOVI FUNCTION DIAGRAM

- If connecting a large number of Floodlites check for SOVI indication on all the lamps in the string. Guidance on lamp connection and extensions can be found at www.wolf-safety.co.uk
- This product is Class 1 equipment and must be earthed. Floodlites are supplied as standard with 3 core earthed supply cables. Where the user specifically requires a 24 volt SELV Floodlite with 2 core cable (+ve and -ve) / a 2 pole plug, the Floodlite must be used with a separate connection to earth via the external earth grounding point.
- All Floodlites have terminal blocks suitable for incoming cables for up to 4mm² conductor capacity.
- Ex "e" certified Increased Safety terminal blocks must have all terminals fully tightened down even if a conductor is not fitted. On all terminal blocks, tighten screws to 0.5-0.7Nm.
- ATEX/IECEx approved cable glands must be used and be suitable for the type of cable used. Any unused cable entries should be blanked off with a suitable ATEX/IECEx approved stopper plug to maintain a minimum IP67 rating as marked on the label.
- Floodlites and cable should be inspected prior to each use for visible signs of damage. Particular attention should be paid to gland and socket entries. Damaged lamps should be removed from the work area and repaired before being put back in service.

PHOTOBIOLOGICAL SAFETY.

Floodlites are risk group 1 - No photobiological hazard under normal behavioural limitations

TECHNICAL DATA

Enclosure		Marine grade aluminium alloy with a powder coated finish.	
Lens		Toughened Glass	
Light Source:	Туре	36 x White High Power LEDs	
	Life	100,000+ hrs	
Weight		7.3kg (excluding cable)	

ELECTRICAL DATA

Model	WF-300XLL	WF-300XLH	
Voltage	18-50V AC/DC	90-264V AC only	
Total Circuit Power	≤ 55 Watts	≤ 62 Watts	
VA (AC)	84VA at 24V AC 96VA at 42V AC 104VA at 48V AC	N/A	

MAINTENANCE



- Isolate the Floodlite from the mains supply and allow to cool before carrying out any maintenance work.
- IMPORTANT. No modifications are permitted to the Floodlites, all spare parts must be purchased from the manufacturer, unauthorized modifications or spare parts will invalidate certification.

 Portable Appliance testing must be carried out to IEC, EN standards to the correct rating i.e. 250V DC for 18-50V versions and 500V DC for 90-264VAC versions. Live and neutral cables must be shorted together and the voltage applied between earth and this connection.

FRONT COVER

Remove the front cover by unscrewing the four socket head retaining bolts. Release the Earth connecting wire by pulling the spade connection off in the Floodlite. Perform repairs/ maintenance as necessary. To reassemble follow the above points in reverse order. Take care not to trap/crush wires and ensure the seal is in good condition.

*The Certificate label and serial number are fitted to the front cover, therefore do not interchange the front covers with other WF-300XL Floodlites. See internal body label for serial number reference.

CHANGING CABLE OR SOCKET

See diagrams overleaf

Disconnect the input cable, release cable from input gland. Check the gland seal is in good condition, fit the new part(s) and re-assemble the product by following the stated procedure in reverse order.

CHANGING LED PANELS

See diagrams overleaf

Each LED panel can be removed by unscrewing four socket head bolts and the wiring terminations. Discard the old panel and replace with a new one by following the removal procedure in reverse. A new thermal pad must be fitted on replacement under the LED panel as shown in the exploded diagram.

CHANGING LED DRIVERS

See diagrams overleaf

Unscrew the internal & external wiring terminations from the six & four way terminal blocks and remove the driver retention bracket by unscrewing the two bolts. One or both drivers can be replaced. To reassemble follow the above points in reverse order.

CHANGING GLASS LENS

See diagrams overleaf

Replace the glass by unscrewing the six socket head screws securing the three retaining plates. Fit the new glass making sure strip gasket material is fitted between the glass and each retention plate.

FAULT FINDING



If a WF-300XL Floodlite fails to function, remove the product from service into a non hazardous area. Remove the cover and apply power to the Floodlite. Check the input voltage at the terminals is present and is the correct rating for the Floodlite. If the voltage is correct the check the output voltage to the LED panels, this should be 19V DC+/-1V. If this voltage is not present then the driver is faulty, if it is then the LED panel is faulty. Replace as necessary.

DISPOSAL OF WASTE MATERIAL

Disposal of packaging, Floodlite as well as LED panels and drivers should be carried out in accordance with national regulations (WEEE).

SPARE PARTS

See diagrams overleaf

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



SPARE PARTS

ltem No.	Part No.	Part Description	Quantity
1	WF-552	Painted rear casting + seal and retaining bolts	1
2	WF-572	Painted front cover assembly, complete with glass	1
3	WF-554	Glass Lens, Seal and bracket pads	1
4	WF-586	18-50V LED Driver	1 (2 needed per Floodlite)
5	WF-592	90-264V LED Driver	1 (2 needed per Floodlite)
6	WF-558	LED Panel, Thermal pad and fixing screws	1 (2 needed per Floodlite)
7	WF-562	6 way -4mm2 Terminal Block, & 2 QB links and fixing screws	1
8	WF-564	4 way -4mm2 Terminal Block, and fixing screws	1
9	WF-587	LED Driver Retention Bracket (18-50V)	1
10	WF-589	LED Driver Retention Bracket (90-264V)	1
11	WF-560	Complete Driver Assembly Inc. Bracket and terminals (18-50V)	1
12	WF-570	Complete Driver Assembly Inc. Bracket and terminals (90-264V)	1
13	WF-584	Floodlite Enclosure Seal	1
14	WF-585	Floodlite Glass Seal	1
15	WF-576L	Internal Screw and Sticker Set 18-50V AC/DC	1
16	WF-576H	Internal Screw and Sticker Set 90-264V AC	1
17	WF-566	Internal Earth/Grounding wire set	1
18	WF-568	External Earth Stud	1
19	WF-590	Bridle Fixing Kit	1
20	WF-582	Frame & Bridle (No fixings incl.)	1
21	LL-311	Gland M20 x 1.5mm	1 (+1 LinkEx Versions)
22	WF-495	M20 stopping plug	1
23	WF-550	Certification label and bracket are specific to the individual product, contact your authorised Wolf supplier for replacement.	1







LinkEx[™] WF-300[®]XL LED Floodlite features

- Ideal for Task lighting and work activities in a hazardous area
- ATEX and IECEx approved for Zone 1 and 21 explosive gas and dust atmospheres.
- High power 'fitted for life' LED light source
- High quality, even, ultra-wide angle LED light, reduces shadows and enhances visibility
- Medium angle flood beam
- Safe/Optimal Voltage Indication "SOVI" to ensure safe certified operation.
- ATEX/IECEx Approved Floodlite Protection Accessories available



WOLF SAFETY LAMP COMPANY

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