



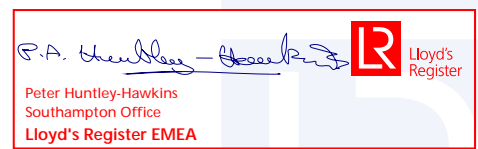
Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No.01/ 00103(E3) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Wolf Safety Lamp Company Ltd
PLACE OF PRODUCTION	Saxon Road Works Sheffield, S8 0YA United Kingdom (UK)
DESCRIPTION	Rechargeable battery powered safety handlamp, Primary cell powered safety handlamp
TYPE	Wolfliite, H-4DCA, H-3DCA, H-251A
APPLICATION	For use in Zone 1 and Zone 2 of potentially explosive gas, vapour and mist atmospheres and Zone 21 and Zone 22 of potentially explosive dust atmospheres in the Marine and Offshore industries
STANDARD	EN-60079-0:2012+A11:2013 EN-60079-7:2015 EN-60079-11:2012 EN-60079-28:2015 EN-60079-31:2014
RATINGS	H-4DCA- Code: II 2GD Ex eb ib IIC T4 Gb Ex tb IIIC T135°C Db Ambient Temp.: -10° C to +40° C Enclosure: IP 66 Bulb: 4.8 V min.at 0.5 A max. HPR (Halogen) only
Certificate No.	01/ 00103(E4)
Issue Date	4 July 2016
Expiry Date	3 July 2021
Sheet	1 of 2



P.A.Huntley-Hawkins
Marine Technology & Engineering Services Southampton
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H-3DCA- Code: II 2GD Ex ib op is IIC T4 Gb
Ex ib op is T170°C Db
Ambient Temp.: -20° C to +40° C
Enclosure: IP 66
Bulb: LED H-79

H-251ALED- Code: II 2GD Ex ib op is IIC T4 Gb
EX ib op is IIIB T170°C
Ambient Temp.: -10°C/ -20°C to +40° C
Enclosure: IP 66
Bulb: H-79

OTHER CONDITIONS

Dust layers must be prevented from building up on equipment.
The H-3DCA may only be fitted with the 3 D-cell battery cassette.
The use of the 4 D-cell battery cassette in the H-3DCA is not permitted.
Refer to BAS00 ATEX2176X Issue 9 for permitted cell types

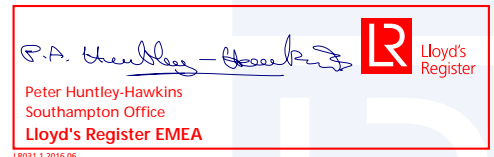
Charge only in non-hazardous (safe) areas and use the battery charger designated by the manufacturer only.
Handlamp to be opened only in non-hazardous (safe) areas.

“This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd’s Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate.”

The attached Design Appraisal Document No. 01/00103(E4) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 01/ 00103(E3) to which this extension should be attached.

Certificate No. 01/ 00103(E4)
Issue Date 4 July 2016
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Sheet 2 of 2



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