







**IECEX TEST REPORT COVER**

ExTR Reference Number.....:	CA/CSA/ExTR16.0059/00	
ExTR Free Reference Number .....	CA/CSA/2016/TR 267256-70099120	
Compiled by + signature (ExTL) .....	Andrew Redeker	<i>A Redeker</i>
Reviewed by + signature (ExTL).....:	Nicholas Cameron	<i>Nicholas Cameron</i>
Approved by + signature (ExCB) ...:	Dorin Stochitoiu	<i>Dorin Stochitoiu</i>
Date of issue .....	November 9, 2016	
Ex Testing Laboratory (ExTL) .....	CSA Group	
Address .....	1707 – 94St NW, Edmonton, AB, Canada T6N 1E6	
Ex Certification Body (ExCB) .....	CSA Group	
Address .....	178 Rexdale Blvd., Toronto, ON, Canada M9W 1R3	
Applicant’s name.....:	Blackline Safety	
Address .....	Suite 101, 1215 – 13 St SE Calgary, Alberta T2G 3J4 Canada	
Standards associated with this ExTR package .....	IEC 60079-0:2011, 6 <sup>th</sup> Edition, IEC 60079-11:2011 6 <sup>th</sup> Edition	
Clauses considered .....	(All clauses considered)	
Related Amendments, Corrigenda or ISHs .....	N/A	
Test item description.....:	“Loner Beacon” precise indoor location beacon	
Model/type reference .....	Model 102140	
Code (e.g. Ex __ II__ T_).....:	Ex ia IIC T4 Ga	
Rating.....:	Battery Powered, 3V nominal	

<b>ExTR Package Contents</b>
Assembled ExTR documents and Additional reference material:
IECEX Test Report Cover
IECEX Test Report: IEC 60079-0, Edition 6
IECEX Test Report: IEC 60079-11, Edition 6

Manufacturer's name .....	Blackline Safety
Address .....	Suite 101, 1215 – 13 St SE Calgary, Alberta T2G 3J4 Canada
Trademark .....	N/A
Certificate No. (optional) .....	IECEX CSA 16.0053
QAR Reference No. (optional) .....	CA/CSA/QAR.0006/00
<b>Particulars: Test item vs. Test requirements</b>	
Classification of installation and use .....	Stationary
Ingress protection .....	N/A
Rated ambient temperature range (°C).....	-40 to + 55°C
<b>General remarks:</b>	
<p>The test results presented in this ExTR package relate only to the item or product tested.</p> <ul style="list-style-type: none"> <li>▪ "(See Attachment #)" refers to additional information appended to the ExTR package.</li> <li>▪ "(See appended table)" refers to a table appended to the ExTR package.</li> <li>▪ Throughout this ExTR package, a point is used as the decimal separator.</li> <li>▪ <i>Where the term "N/A" appears in any part of an ExTR package, it indicates that the associated issue was considered "Not applicable" to the involved evaluation.</i></li> <li>▪ <i>In accordance with IECEx 02, a Receiving ExCB may request a sample of the Ex equipment and copies of the documentation referred to in an ExTR Cover.</i></li> </ul> <p>The technical content of this ExTR package shall not be reproduced except in full without the written approval of the Issuing ExCB and ExTL.</p>	
<b>General product information:</b>	
<p>The Loner Beacon, model 102140 is a precise indoor location beacon. It is compatible with Blackline's Loner safety monitoring devices. The Loner Beacon delivers a fixed location position to locate employees indoors or wherever GPS signals are unreliable or unavailable.</p> <p>The Loner Beacon, model 102140 is a portable, battery operated device fabricated from plastic and is approximately 160 mm x 40 mm x 30 mm. There is one printed circuit board within the product. The only protective components are a fuse (F1, 100mA) and Resistor (R2, 1.1Ohms) in series with the cells. The loner beacon is supplied with a wall mount that the device snaps into which is constructed from the same material as the loner beacon. The product is powered from two, alkaline C-Cells in series, these may be any of the following types, however, the cells shall not be replaced when an explosive atmosphere is present and it is the user's responsibility to ensure that both cells are the same type, new and unused.</p> <p>Energizer Industrial EN93 Duracell Procell PC1400 Rayovac UltraPro 814</p>	
<b>Copy of Marking Plate:</b>	
<div style="border: 1px solid black; padding: 10px;"> <p>WARNING - USE ONLY APPROVED BATTERIES. SEE MANUAL FOR COMPLETE LIST WARNING - DO NOT REPLACE BATTERY WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT -40°C to +55°C    IECEX CSA 16.0053    Sira 16ATEX2232    Ex ia IIC T4 Ga</p> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  <p>Unit ID: <b>1234567890/2016</b></p> </div> <div style="text-align: center;">  <p>Activation code: <b>87654321</b></p> </div> <div style="text-align: right;">  <p>II 1G</p>  <p>0518</p> </div> </div> <p><b>Blackline Safety</b>    Suite 101, 1215 - 13 Street SE Calgary, AB T2G 3J4 Canada</p> <p style="text-align: right;">Made in Canada</p> </div>	
<b>Details regarding 'trade agent' / 'local assembler' application in accordance with OD 203: - N/A</b>	

<b>In accordance with OD 024, testing not fully performed by ExTL staff at the above ExTL address: - N/A</b>
<b>National differences considered as part of this evaluation: - N/A</b>
<b>“Specific Conditions of Use” / “Schedule of Limitations”:</b> WARNING – USE ONLY APPROVED BATTERIES. SEE MANUAL FOR COMPLETE LIST WARNING – DO NOT REPLACE BATTERY WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT
<b>Routine tests: - N/A</b>
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<b>Technical Documents</b>			
<b>Title:</b>	<b>Drawing No.:</b>	<b>Rev. Level:</b>	<b>Date:</b>
Wall Bracket	01103-25091	R01	July 5, 2016
Frontshell	01103-25092	R01	July 5, 2016
Backshell	01103-25093	R01	July 5, 2016
Assembly	01103-A1140	R02	May 10, 2013
PCB Potting	01103-A1977	R01	May 10, 2013
Schematic	SCH 102132	03	July 11, 2016
Bill of Materials	BOM 102132	03	May 2, 2016
PCB Specs	Bacon-ehw	00	May 9, 2013
PCB Artwork	PCB 101238	00	May 9, 2013
Quick start guide	102128	4	-----
Label Drawing	Beacon Label	4	Nov 1, 2016

Note: An \* is included before the title of documents that are new or revised.