

EU-Type Examination Certificate



1. **EU-TYPE EXAMINATION CERTIFICATE**

2. **Safety Device, Controlling Device or Regulating Device Intended for use outside a Potentially Explosive Atmosphere but required for or contributing to the safe function of Equipment and Protective Systems with respect to the risks of explosion Directive 2014/34/EU**

3. **EU-Type Examination Certificate Number: ITS10ATEX16970X Issue 4**

4. **Product:** Silver Bullet 316 Proximity Sensor
5. **Manufacturer:** Westlock Controls Corporation
6. **Address:** 280 Midland Avenue, Saddle Brook, NJ 07663, USA

7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8. Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of the products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Intertek Reports 102903535CRT-002a and 102903535CRT-002b and 103276865CRT-002a and 103276865CRT-002b dated 2017-12-11.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012, EN 60079-1: 2014 and EN 60079-31:2014 except in respect of those requirements referred to at item 16 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

11. This EU-Type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12. The marking of the product shall include the following:



II 2 G Ex db IIC T* GB
II 2 D Ex tb IIIC T* Db IP6X

-20°C ≤ Ta ≤ 84°C (T5/T100°C)
-20°C ≤ Ta ≤ 68 °C (T6/T85°C) or
-50°C ≤ Ta ≤ 84°C (T5/T100°C)

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Michael Spector
Certification Officer
21 December 2017



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13. Description of Safety Device, Controlling Device or Regulating Device

The Model 316 (Silver Bullet) series proximity switch operates on the principle of magnetic attraction reacting to ferromagnetic triggers as they come within the sensing range. The Model 316, when actuated by the presence of the ferromagnetic trigger, changes state of electrical contacts from Normally Closed (NC) to Normally Open (NO). This product is available in 316 stainless steel material only with any of the following features:

M20 x 1.5 or 1/2-14 NPT internal connection thread

Single Pole Double Throw (SPDT) or Double Pole Double Throw (DPDT)

Tungsten, Rhodium or Gold plated contacts

Hall effect sensor

Standard cable length - 6m (20 feet) (other cable lengths are available)

The maximum ambient temperature range is -20°C to +84°C (T5/T100°C) and -20°C to +69°C (T6/T85°C) or -50°C to +84°C (T5/T100°C)

The Silver Bullet was tested with a cemented flamepath and as an Ex db enclosure and therefore can be fitted with or without a cable gland to the rear.

Part coding of the 316 Silver Bullet is as follows:

316SB- or 316LT- (-50°C ambient)

Switch Design	Contact Material	Conduit	Length of Cable	Special Feature
S SPDT	T Tungsten	M M20x1.5p	XXX Flying lead Length in Feet (Meters)	AAA Standard
D DPDT	R Rhodium	N ½"-1/4 NPT	020 20 Feet (6M)	XXX Special variation
H Hall Effect	G Gold Plated		004 4 Feet (1.2M)	
B Bifurcated SPDT	0 For Hall Effect			

Example code: 316SB-STM-020-AAA

SPDT, Tungsten, M20, 20 Foot cable, standard configuration

14. Report Number

Reports 102903535CRT-002a and 102903535CRT-002b and 103276865CRT-002a and 103276865CRT-002b dated 2017-12-11.

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This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification

RFT-EU-NB-OP-23k1b June 29, 2016



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15. Conditions of Certification

(a). Specific Conditions of Safe Use

- When used with a cable gland it shall be fitted with an Ex d IIC Gb and Ex tb IIIC Db cable gland, of threadform M20 or 1/2"-14 NPT depending on the entry thread of the Silver Bullet
- When conduit is used a suitably approved stopping box must be used, at a distance from the Silver Bullet which is less than the diameter of the conduit
- The casing of the Silver Bullet must be suitably earthed / equipotentially bonded via earthed metal conduit or the threaded outer of the body
- The equipment is supplied with flying leads. The cable must be protected mechanically and terminated within an enclosure protected by a recognized IECEx method of protection appropriate to the location if located in a potentially explosive atmosphere
- Flamepath joints are not intended to be repaired.

(b). Conditions of Manufacture - Routine Tests

- None



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16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Reports 102903535CRT-002a and 102903535CRT-002b and 103276865CRT-002a and 103276865CRT-002b dated 2017-12-11.

17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
316 Silver Bullet Marking Drawing ATEX and IECEx	MS-090903UK	A	20/01/12
316 Silver Bullet Marking Drawing ATEX and IECEx	LB-041001UK	B	04/21/17
Installation & operating Instructions. Weslock Model 316 Silver Bullet	VCIOM 04467	A	12/12/17

18. Details of Certificate changes Issue 0 to 1

- To remove the need to control the epoxy used to secure the sub-assembly within the enclosure.
- To allow an additional water IP rating to be placed upon the label.

Details of Certificate changes Issue 1 to 2

- Change of standard from EN 60079-0: 2009 to EN 60079-0:2012
- Change of standard from EN 61241-1:2004 to EN 60079-31:2009

Details of Certificate changes Issue 2 to 3

- Change of standards from EN 60079-1: 2007 to EN 60079-1:2014 and EN 60079-31: 2009 to EN 60079-31:2014
- Update the applicant and manufacture address from Westlock Controls Ltd. 22 Chapman Way Tunbridge Wells Kent TN2 3EF United Kingdom to Westlock Controls Corporation 280 Midland Avenue Saddle Brook, NJ 07663 USA
- Updated drawing list –
 - Added latest marking label and instruction manual

Details of Certificate changes Issue 3 to 4

- Added optional low ambient temperature range detailed in the marking and equipment description: -50°C to +84°C (T5/T100°C)
- Added model option 316LT for the new low ambient range
- Drawings went up a level to add the new temperature range.