



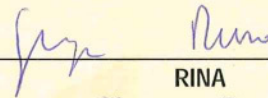
TYPE APPROVAL CERTIFICATE
No. ELE081713XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

| | |
|-----------------------------|--|
| <i>Description</i> | Pressure switches, compact model |
| <i>Type</i> | Series 8000/9000 |
| <i>Applicant</i> | BARKSDALE GMBH Dorn - Assenheimer Str. 27 D-61203 Reichelsheim GERMANY |
| <i>Manufacturer</i> | BARKSDALE GMBH |
| <i>Place of manufacture</i> | Dorn - Assenheimer Str. 27 D-61203 Reichelsheim GERMANY |
| <i>Reference standards</i> | .RINA Rules for the Classification of Ships - Part C, Machinery, Systems and Fire Protection - Chapter 3, Section 6 , table 1 |

Issued in **HAMBURG** on **August 26, 2013**. This Certificate is valid until **August 20, 2018**





RINA
Giuseppe Russo

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE

No. **ELE081713XG**

Enclosure - Page 1 of 1

Series 8000/9000

Product description:

Diaphragm / Piston pressure switches Seies 8000

| Adjustable Ranges (decreasing pressure) bar | Adjustable Ranges (increasing pressure) bar | Typ. Hysteresis bar | | Proof pressure bar |
|---|---|---------------------------|--|-----------------------|
| Diaphragm | Diaphragm | < or = 15 % full scale | | 80 |
| 0,4 ... 5,7 | 0,6...6,0 | | | |
| 2,0...17 | 3,0...20 | | | |
| 3,0...41 | 4,0...45 | < or = 20% full scale | | 600 600 900 |
| Piston | Piston | | | |
| 3,0...160 | 5,0...180 | | | |
| 30...300 | 50...350 | | | |
| 55...520 | 80...600 | | | |

Piston pressure switches Seies 9000

| Adjustable Ranges (decreasing pressure) bar | Adjustable Ranges (increasing pressure) bar | Typ. Hysteresis bar | | Proof pressure bar |
|---|---|---------------------------|----------------|-----------------------|
| Diaphragm | Diaphragm | Start of range | End of range | 80 |
| 0,1 ... 1,5 | 0,2 ... 2 | < or = 0,4 bar | < or = 0,7 bar | |
| 0,4 ... 14 | 1 ... 16 | < or = 0,6 bar | < or = 2 bar | |
| 0,2 ... 27 | 1 ... 30 | < or = 0,8 bar | < or = 3 bar | |
| Piston | Piston | < or = 10 % full scale | | 300 300 600 |
| 6 ... 44 | 10 ... 50 | | | |
| 15 ... 185 | 20 ... 200 | | | |
| 35 ... 360 | 40 ... 400 | | | |

Test report:

BFSV Nr. 5527/05 (08/02/2005),
 BFSV Nr. 5641 a/05 (22/06/2005),
 BFSV Nr. 6761/009 (02/07/2009),
 Prüflaboratorium Bonn nr. TR8000-233-005 / 006 / 007 / 008 / 009
 Barksdale Nr. 8261-PL1-B, 8251-PL1-B, 8221-PL1-1-B

Reference documents:

Data Sheet 923-1294 Rev. I
 Data Sheets 923-1646 Rev E and 923-1647 Rev E
 EC Type Examination Certificate ISSeP08ATEX016X dated 02.04.2008

This certificate annuls and replaces the previous certificate ELE075712XG/004.



HAMBURG August 26, 2013

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