

# TYPE APPROVAL CERTIFICATE

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No. **93 823 - 88 HH**

Company **Fischer  
Mess- und Regeltechnik GmbH  
Bielefelder Straße 37a  
32107 Bad Salzufen, GERMANY**

Product Description **Pressure Indicator and Switching Device**

Type **DS11  
DS21**

Environmental Category **C, H**

Technical Data /  
Range of Application **Pressure indicator: 270° scale, Indicator class: 2.5**  

Ranges	Max. Static Pressure DS11 [DS21]
0 - 400 mbar	6 [6] bar
0 - 0.6 bar	10 [10] bar
0 - 1 bar	16 [16] bar
0 - 1.6; 0 - 2.5; 0 - 4; 0 - 6	25 [16] bar
0 - 10 bar [only DS11]	25 bar

**Max. medium temperature: 70° C**  
**Gasket and membrane: NBR or Viton**  
**Wetted parts: 1.4310, 1.4305**  
**Pressure gauge: GKAlSi 10(MgCu), with hart coat or 1.4305**  
**Output: 2 c/o - contacts separate adjustable**  
**Rating: 3A, 250 V AC, 250 VA**  
**Electrical connection: fixed cable, length 3m, type MPRX 0,6/1 (Company Nexans) or equivalent**  
**Degree of protection: IP 54**

**Type DS21: identical technical data, gaskets and membrane = viton**

**\*H: Vibration test: 2 to 17 Hz amplitude = 1.6 mm,  
17 to 100 Hz acceleration = 2g**

Test Standard **Guidelines for the Performance of Type Approvals, Chapter 2- Test Requirements for Electrical / Electronic Equipment and Systems (VI-7-2), Edition 2003**

Documents **Technical data sheets: DS11 (Rev.B 08/14), DS21 (Rev.B 08/14);  
Drawings DS11 no.: 02.011.00.24855.3 (Rev. B), 02.011.00.24857.3 (Rev. B),  
Drawings DS21 no.: 02.021.0026023.3 (Rev. D), 02.021.00.23067.3 (Rev. D),  
02.021.01.34017.3 (Rev. A);  
Test report: "TÜV 57 011 7" dated 04.06.1982**

Remarks **This certificate is issued on the basis of GL Guidelines for the Performance of Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007.**

Valid until **2019-09-28**

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File No. **I.D.01**

**Hamburg, 2014-09-15**

Type Approval Symbol



  
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