

# Type Approval Certificate



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

Certificate No. 20 505 - 11 HH

Company Pepperl + Fuchs GmbH  
Lilienthalstr. 200  
68307 Mannheim, GERMANY

Product Description Inclination and Acceleration Sensors

Type IN  
AC

Environmental Category D, F, EMC1

Technical Data / Range of Application AC: nominal voltage 24 VDC, current output 4...20mA  
IN: nominal voltage 24 VDC, current output 4...20mA, voltage output 0...5V,  
0,5...4,5V, 0...10V

#### Type key inclination and acceleration sensors

IN	x	x	-	F99	-	xx	-	xx	-	x
AC	x	x	-	F99	-	xx	-	xx	-	x
[1+2]	[3]	[4]		[5]		[6]		[7]		[8]

[1+2] IN = Inclination Sensor  
AC = Acceleration Sensor  
[3] X = 1 axis, Y = 2 axis

Environmental Category "H":  
Vibration test according to curve 2: 5 ... 150Hz

Test Standard Guidelines for the Performance of Type Approvals Chapter 2, Edition 2003

Documents Test reports Pepperl+Fuchs: PRDE-AGG6 (18.10.2011), PRDE-AJA0B (25.01.2013),  
PRDE-A4G1 (27.04.2010), PRDE-AHU3 (16.03.2012);  
Data sheets sensors, sensor documents, materials, acc. To CD GL-Certification  
10/2013, Data sheets cable: 31-0981C, 31-0982C;  
Test Report Firmware PRDE7412Q (02.01.14) and PRDE-A9COC (24.05.13)

Remarks The operating voltage of the sensors must be well protected against surge caused  
by lightning, for example by operating at SELV/PELV power supplies.

Valid until 2019-05-21

Page 1 of 2

File No. I.D.15

Hamburg, 2014-05-22

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**Germanischer Lloyd**

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## Further Technical Data / Range of Application

- [4] Measurement angle range  
xxxD = Angle range for inclination sensor (xxx range 001...360)  
xxx = Acceleration range (xxx range 01...200)
- [5] F99 = Mechanical housing
- [6] Electrical output (Combinations possible)  
E2 = 3-wire DC, PNP, N.O.  
I = Analog current output  
U = Analog voltage output
- [7] System connector 1  
V1 = M12x1 device connector (4 pins)  
V15 = M12x1 device connector (5 pins)  
V17 = M12x1 device connector (8 pins)  
...M = Cable length in meter (standard 5m)
- [8] Customer specific settings of measurement range  
Yxxxxxx = marking for customer specific version (xxxxxx = 6 digits of part number within typecode)

Measures for limitation of the propagation of fire along cable bundles are required (fire stops).  
Halogen free properties of the cable are not tested.

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Page 2 of 2

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This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".